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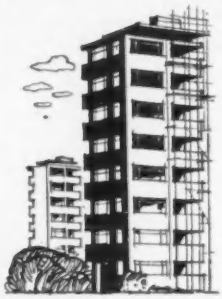

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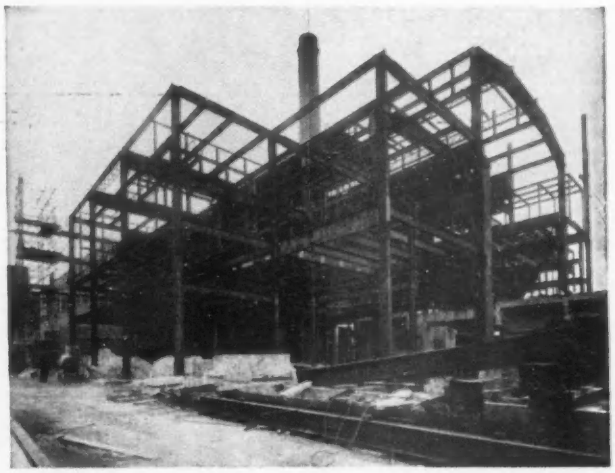

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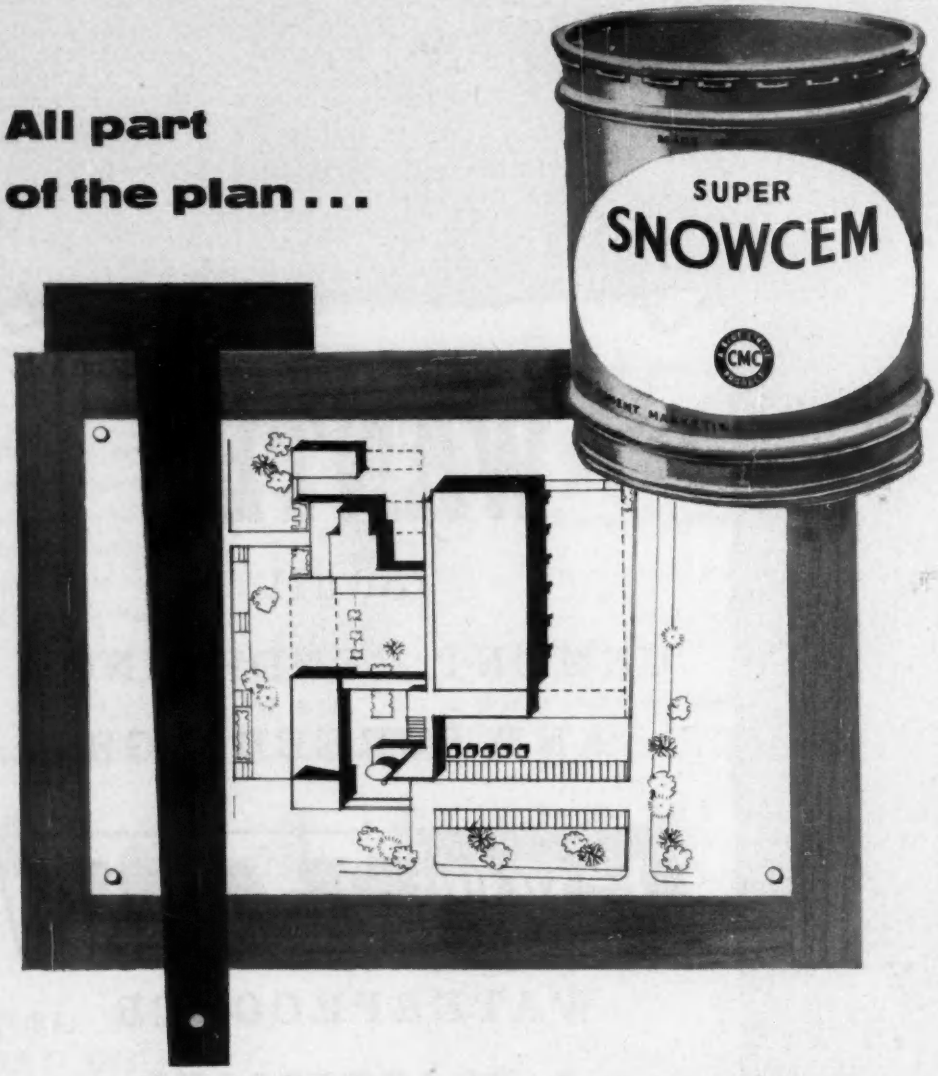

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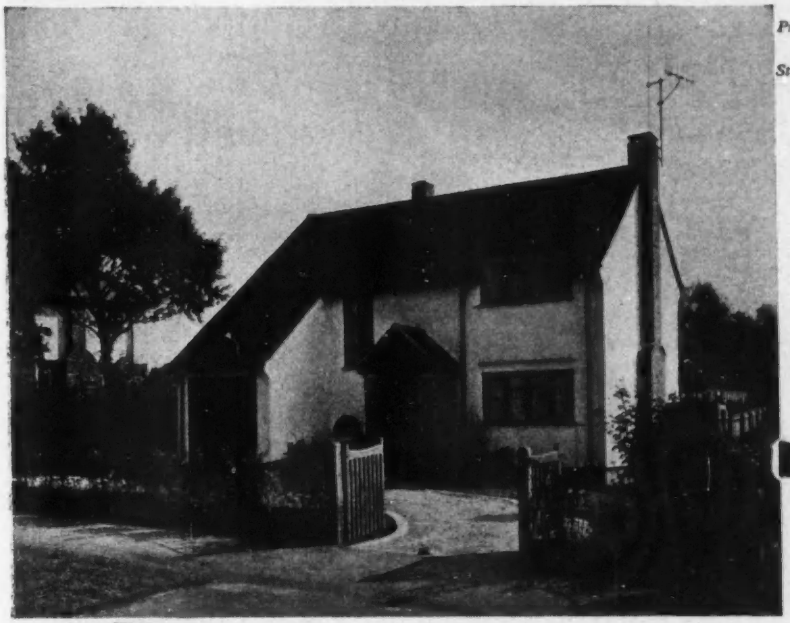

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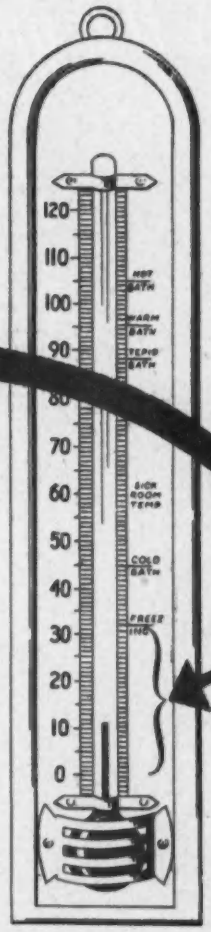

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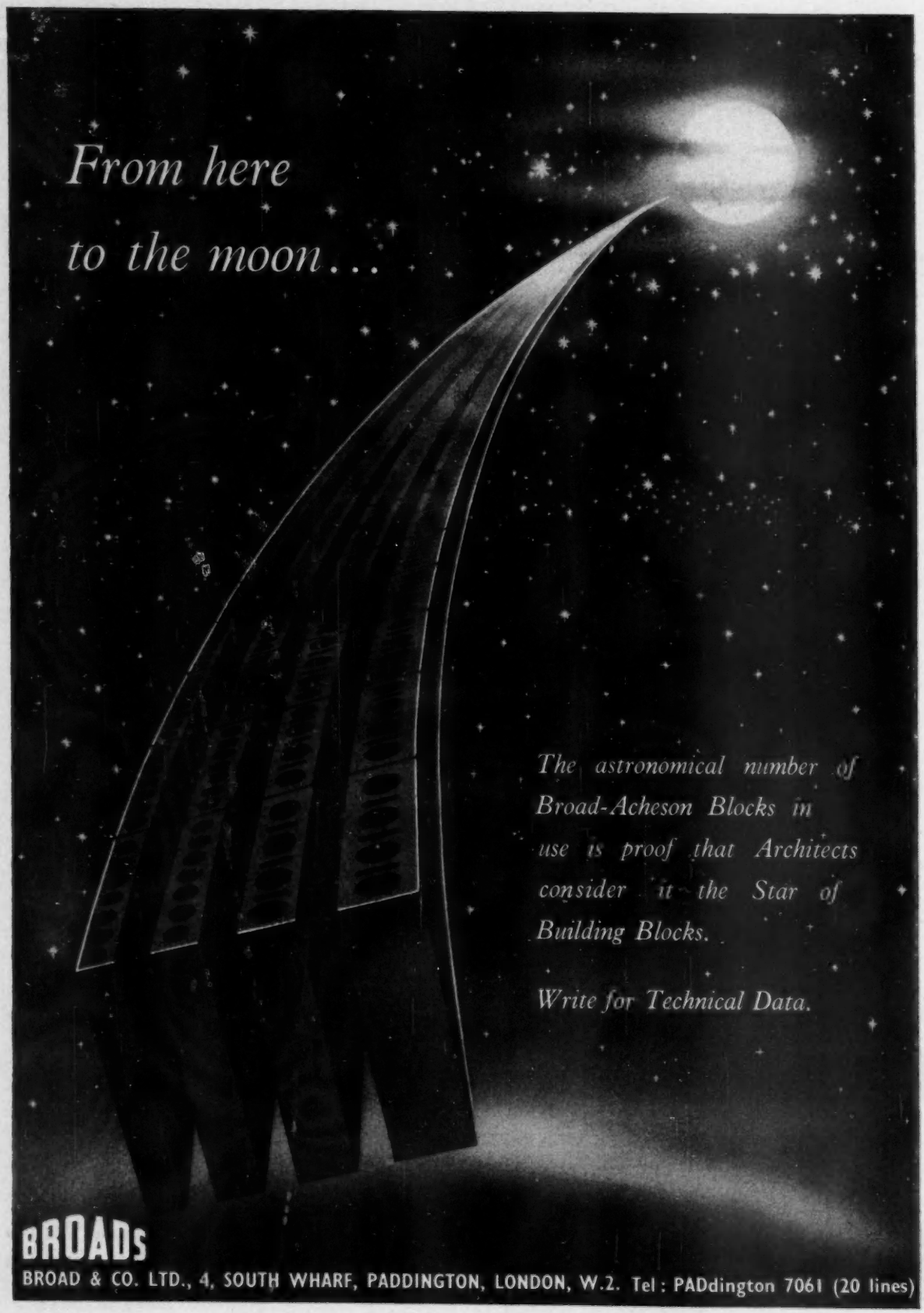
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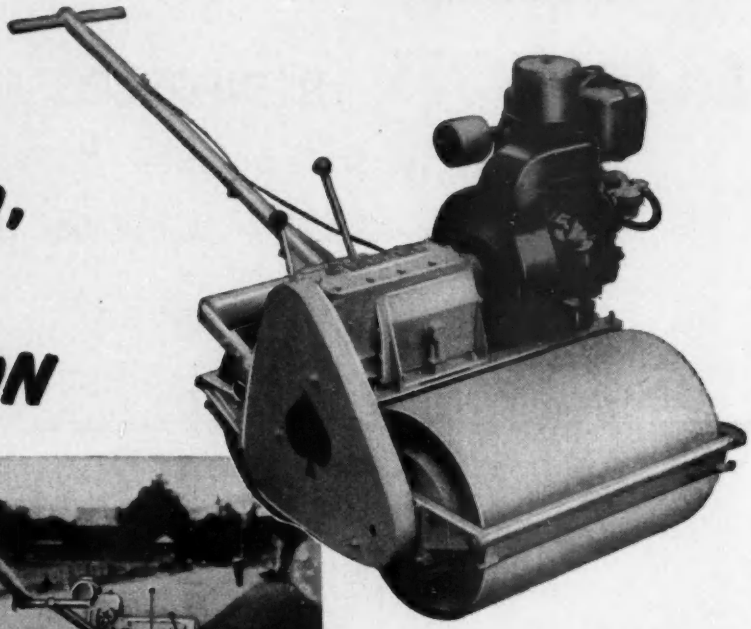

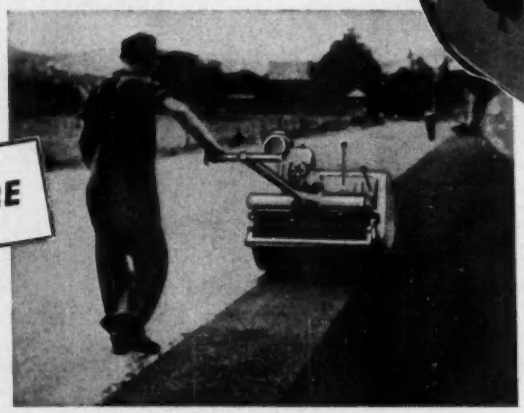

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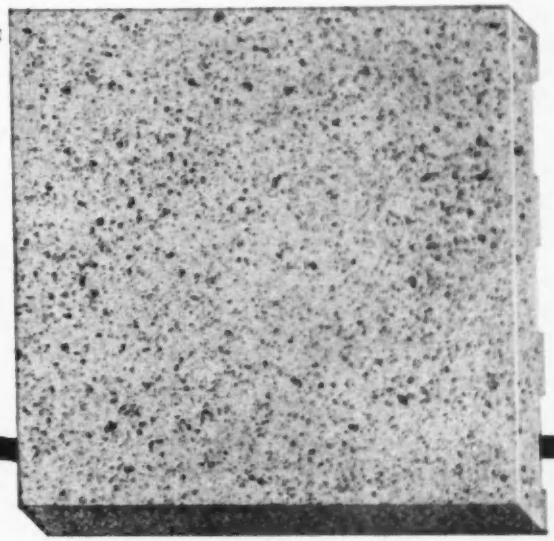

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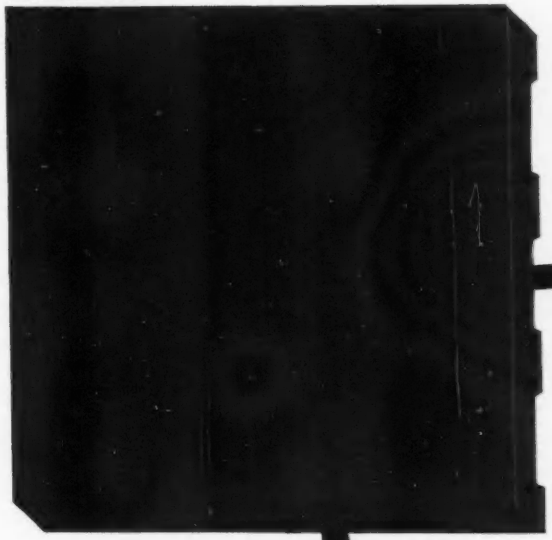

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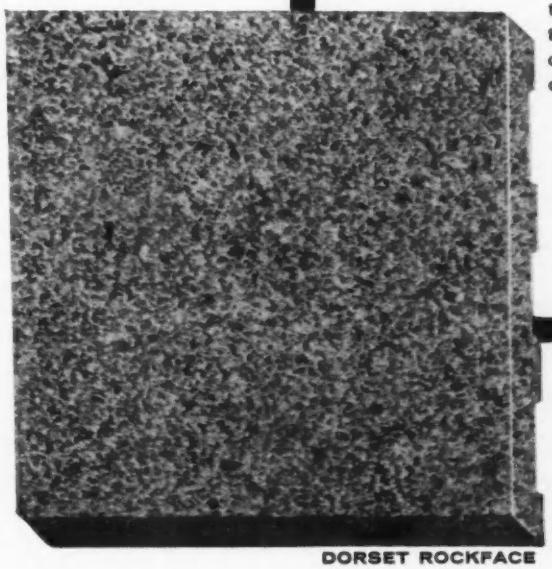

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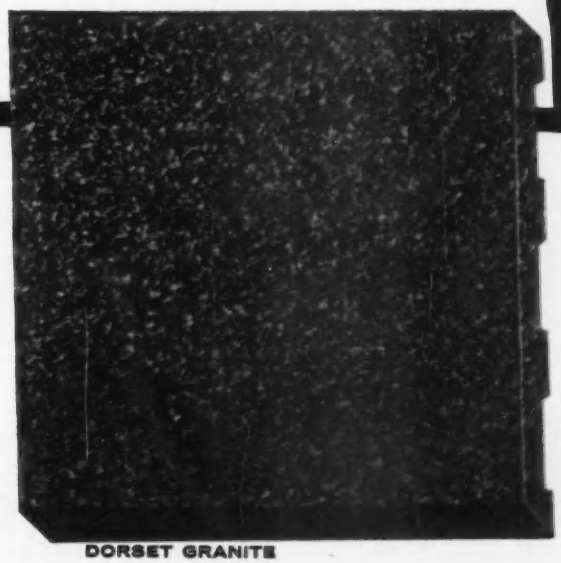

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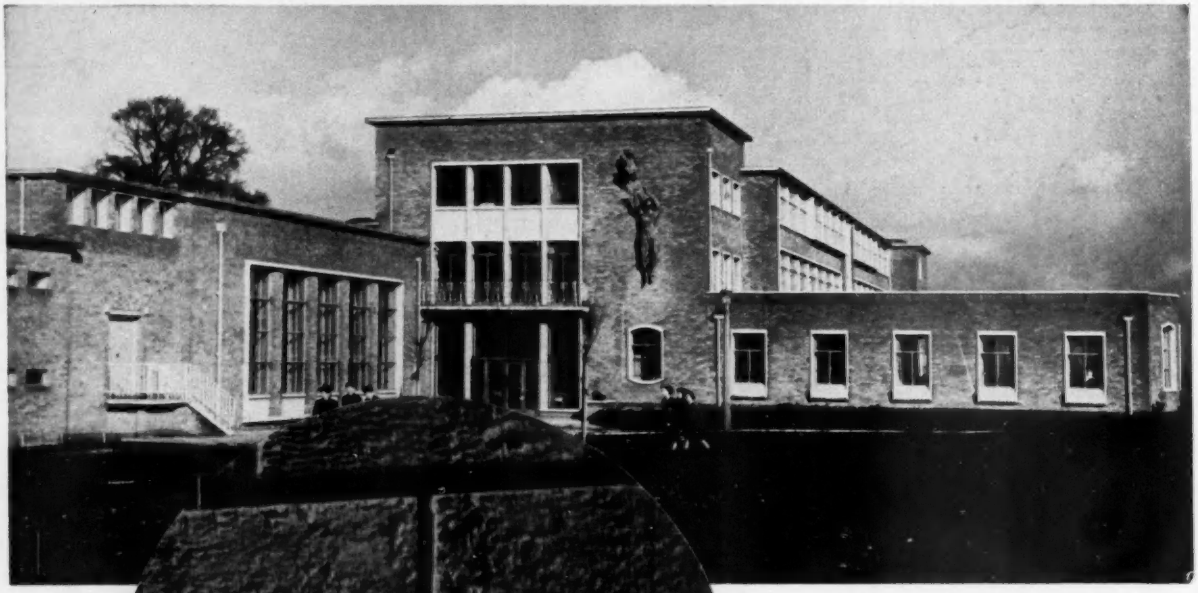

View towards the main entrance

Detail of main entrance *Sculpture by Ben Smith*

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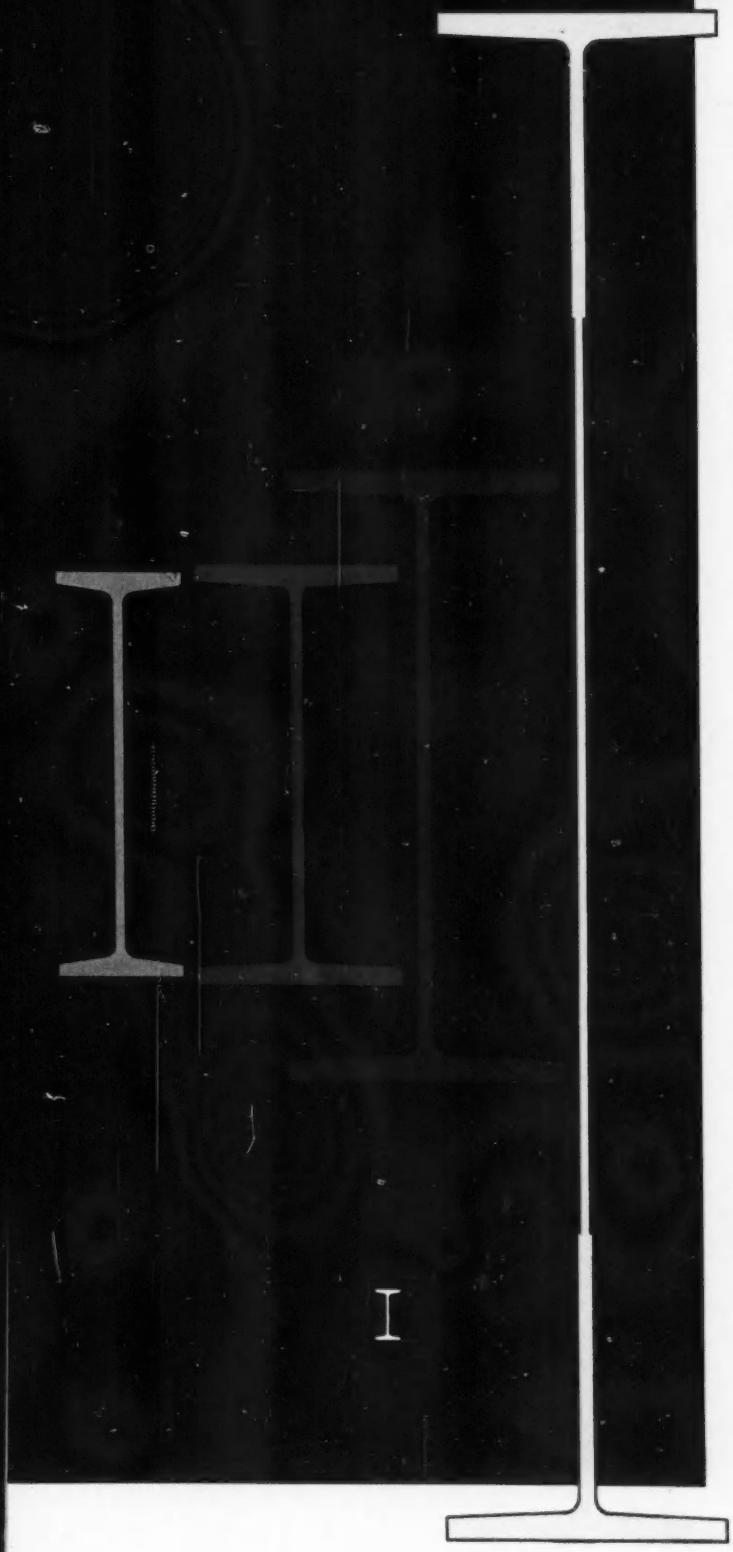

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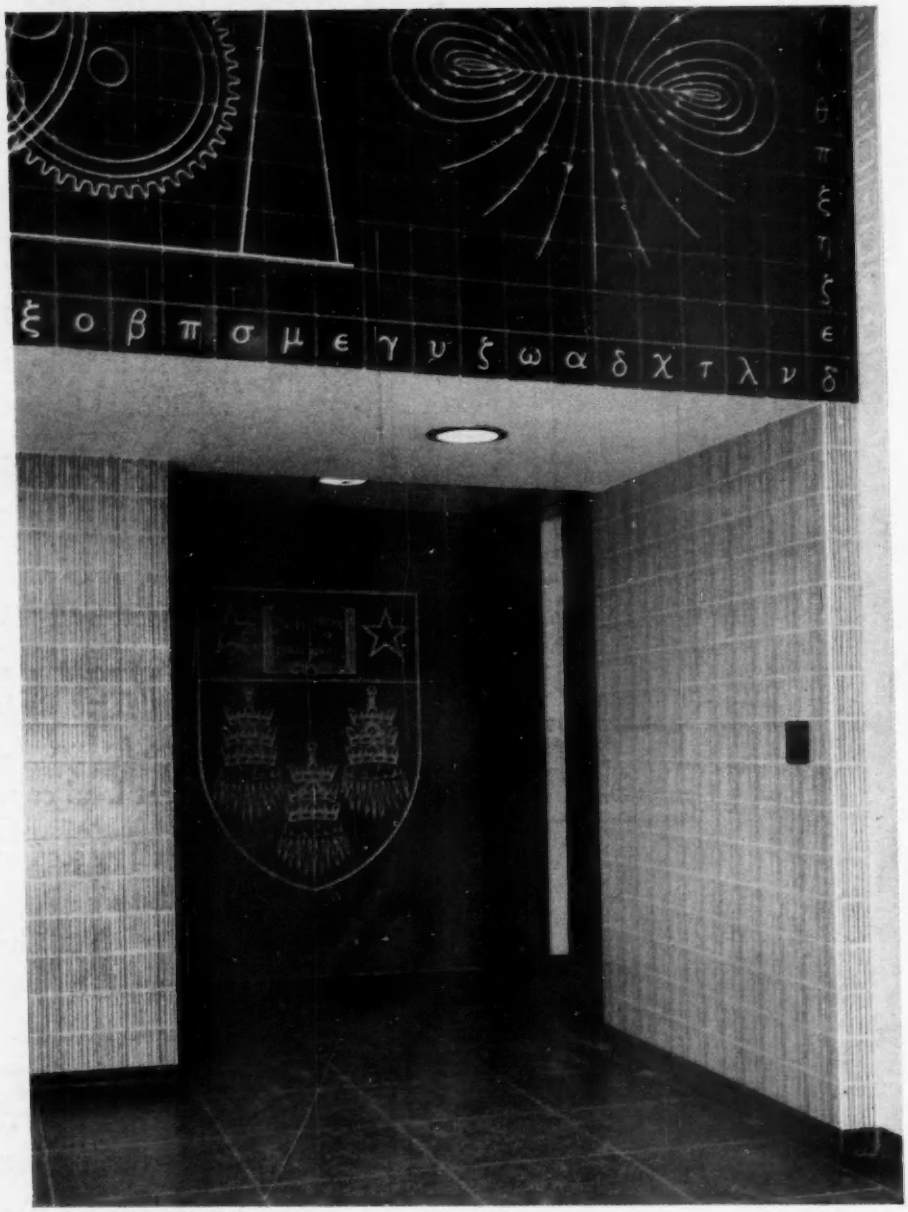

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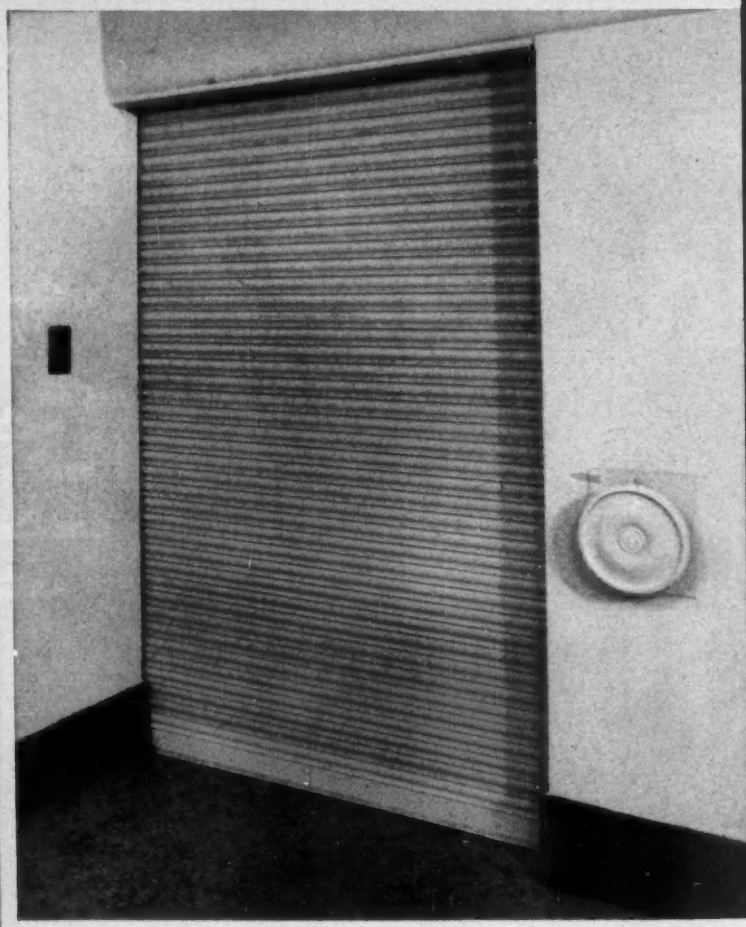

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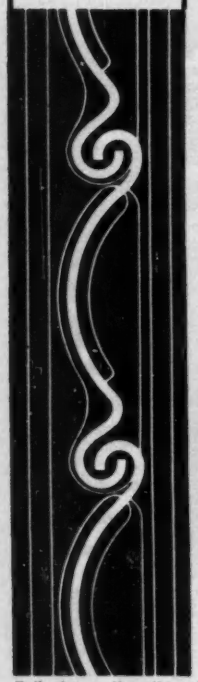

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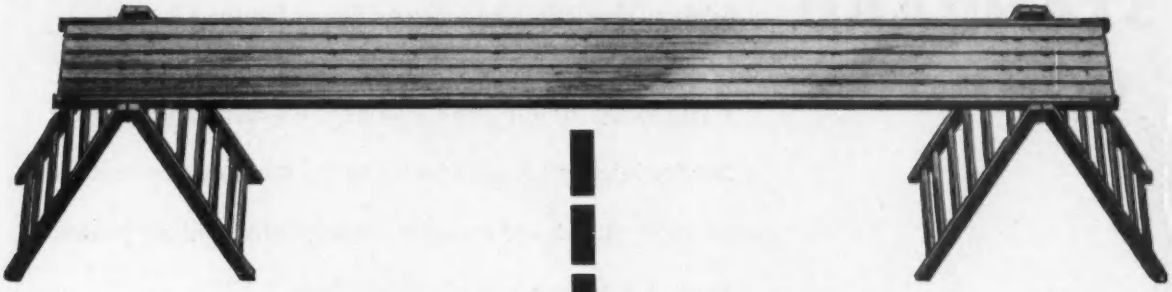

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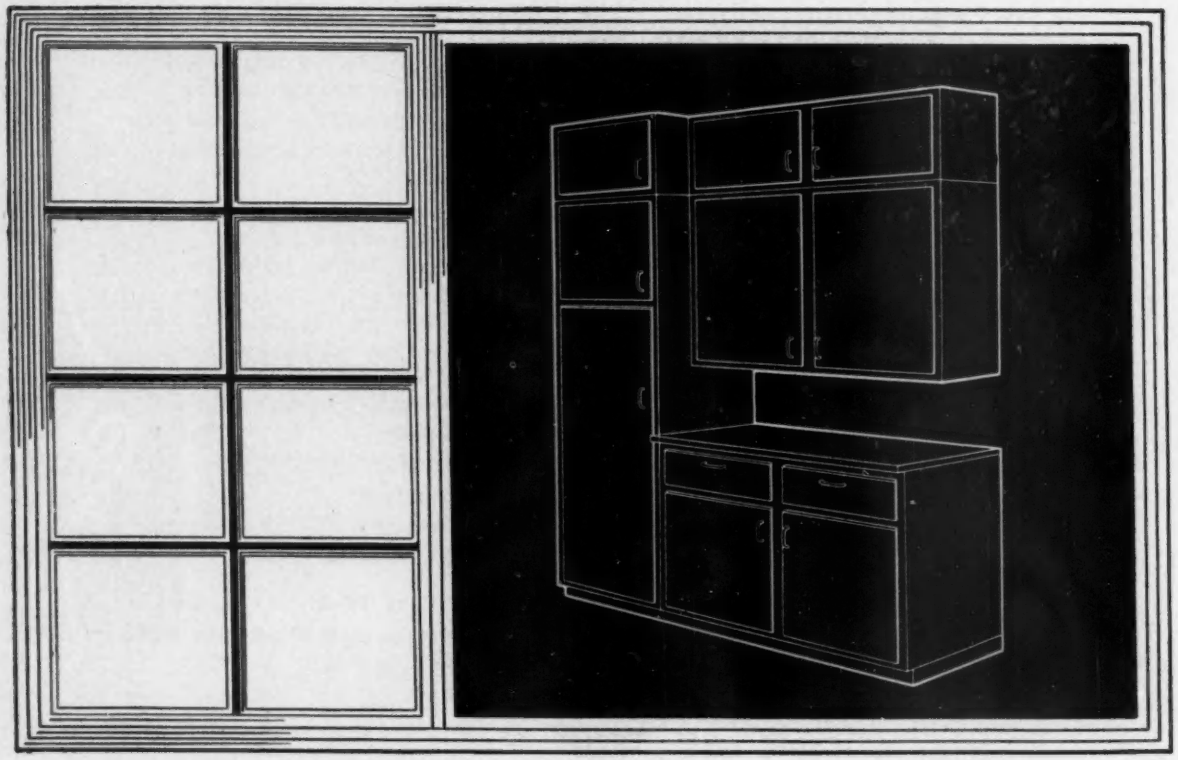

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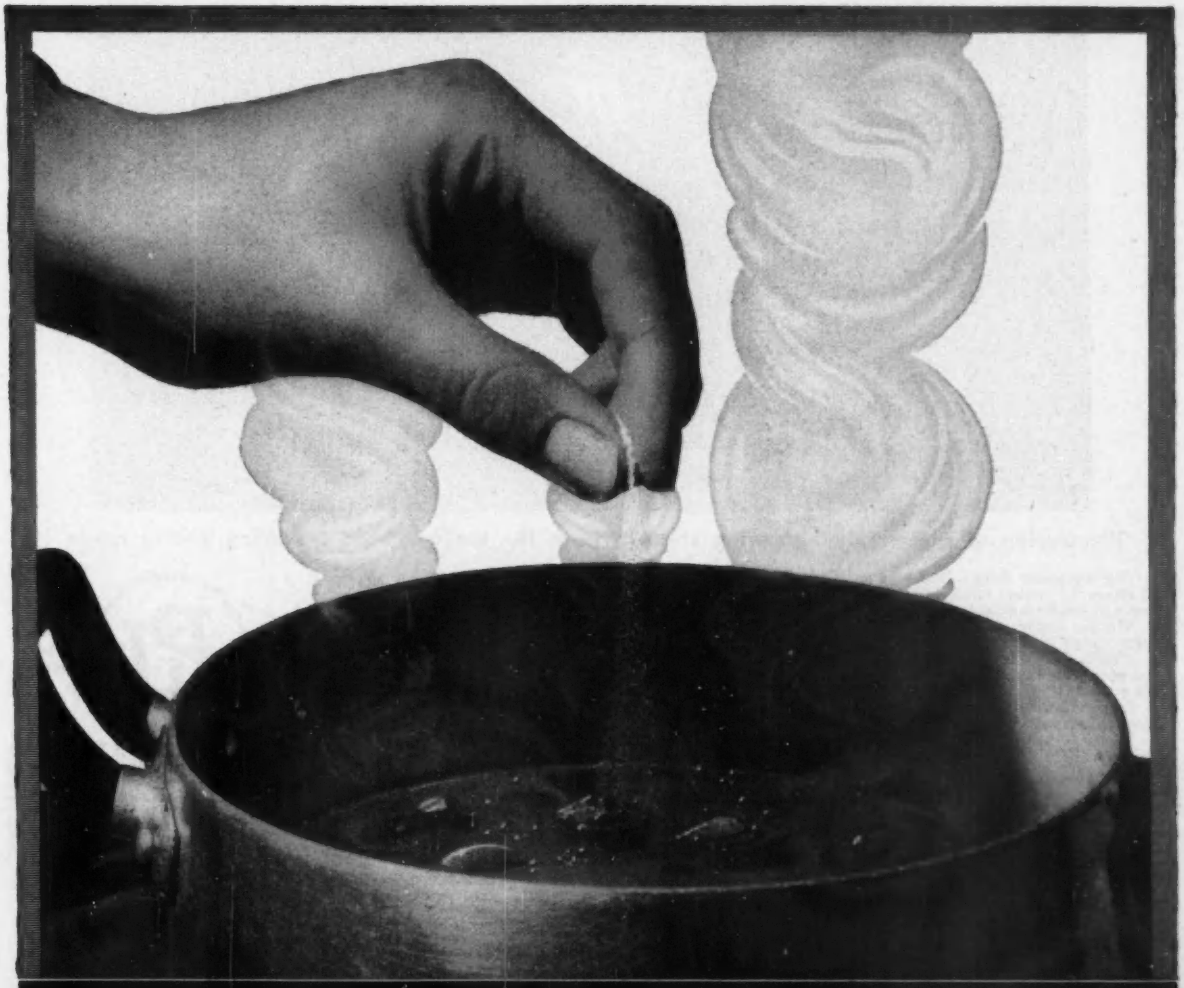

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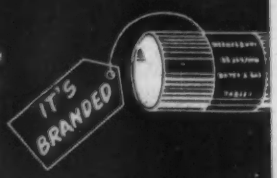

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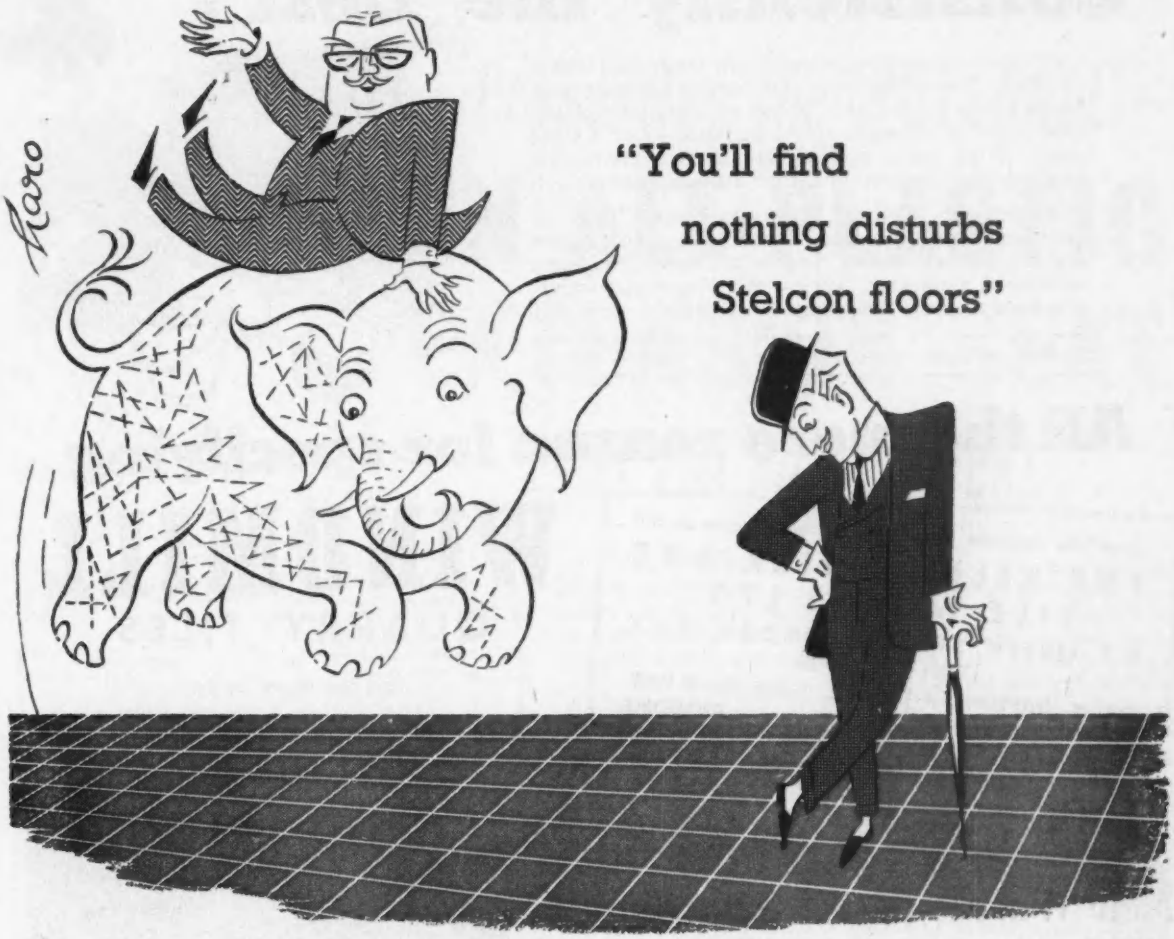

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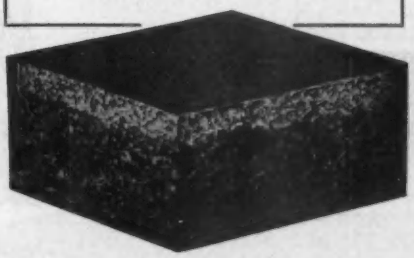

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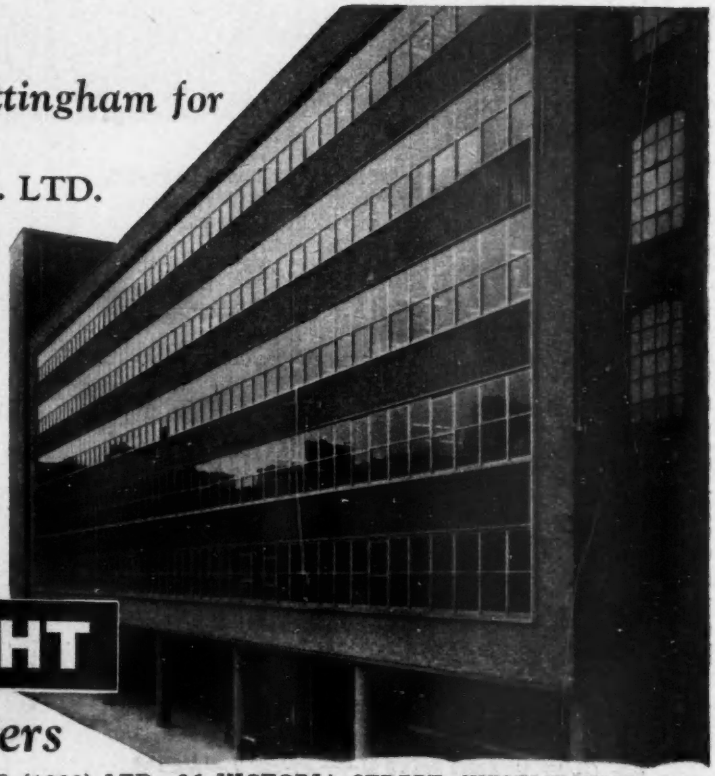

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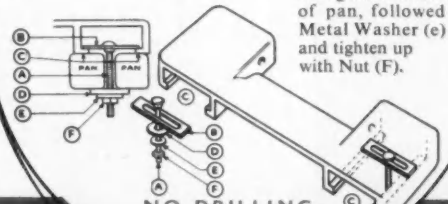

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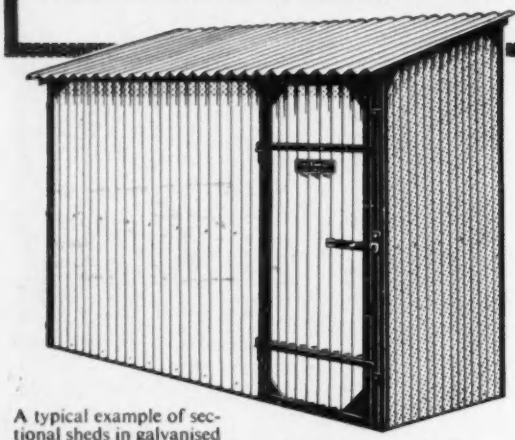

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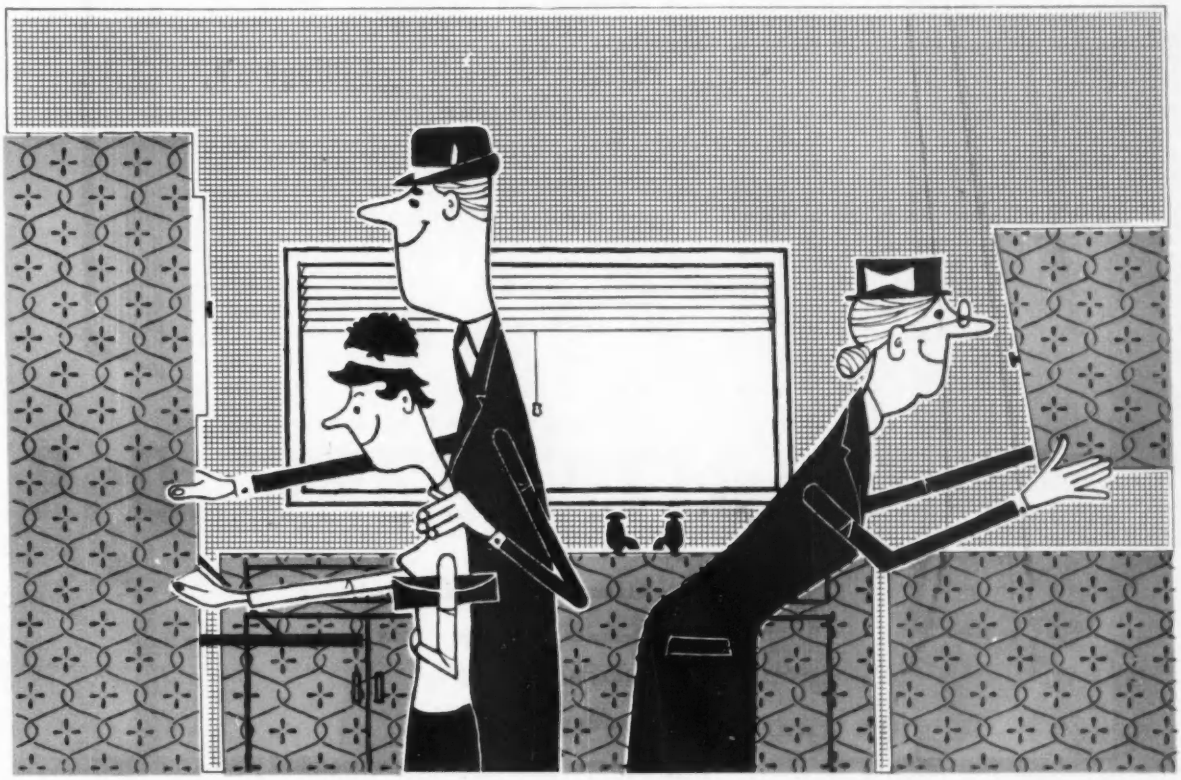

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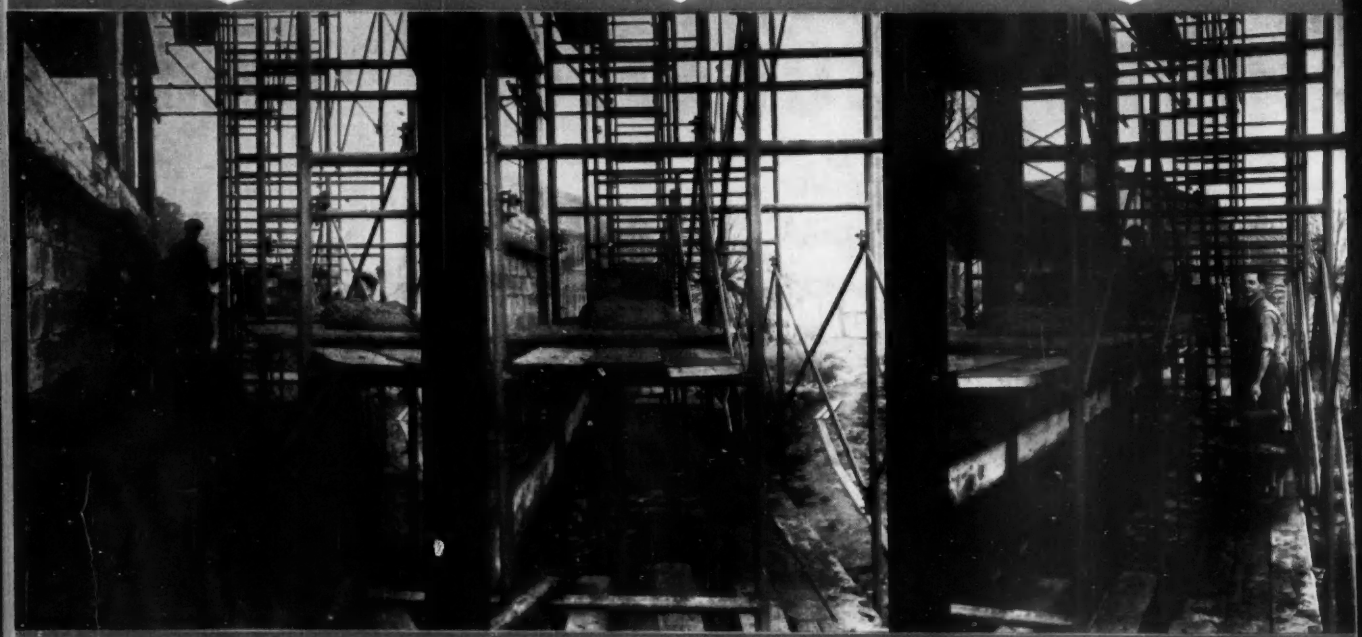
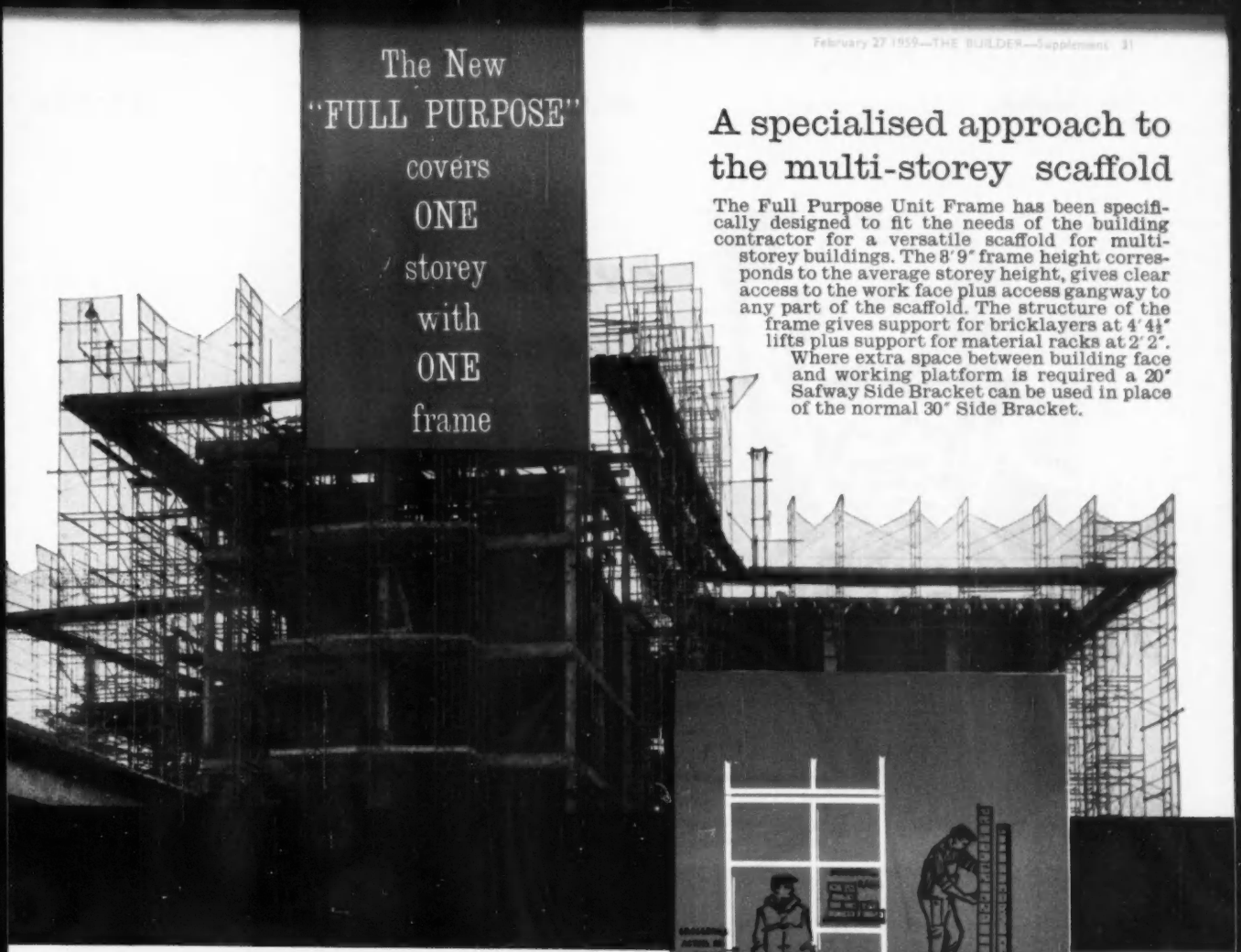
centre view showing convenience of 2ft. 2ins. spacing of material platforms

full 6ft. headroom gangway for easy accessibility



The three illustrations above illustrate the time-shattering simplicity of this new Safway Full Purpose Unit Frame which gives perfect working conditions for all trades. One Unit gives safe working support for access gangway, together with material racks 2′ 5″ wide. Operatives have a clear walkway within each frame plus clear access to building face.



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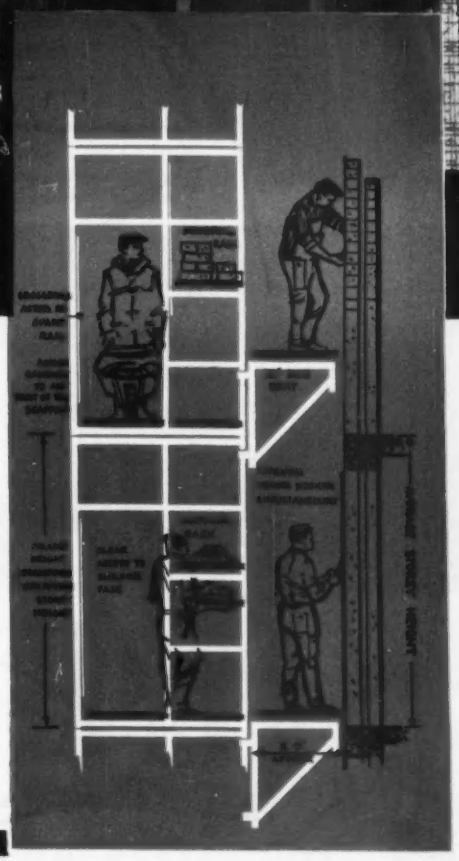

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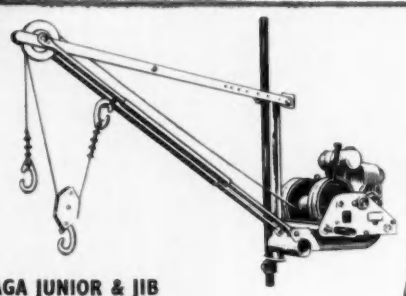

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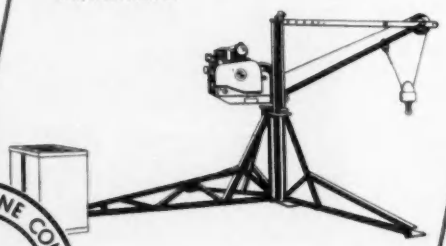

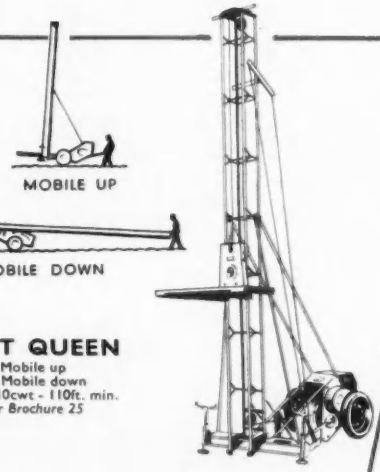

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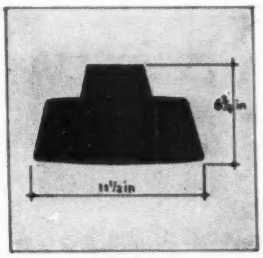

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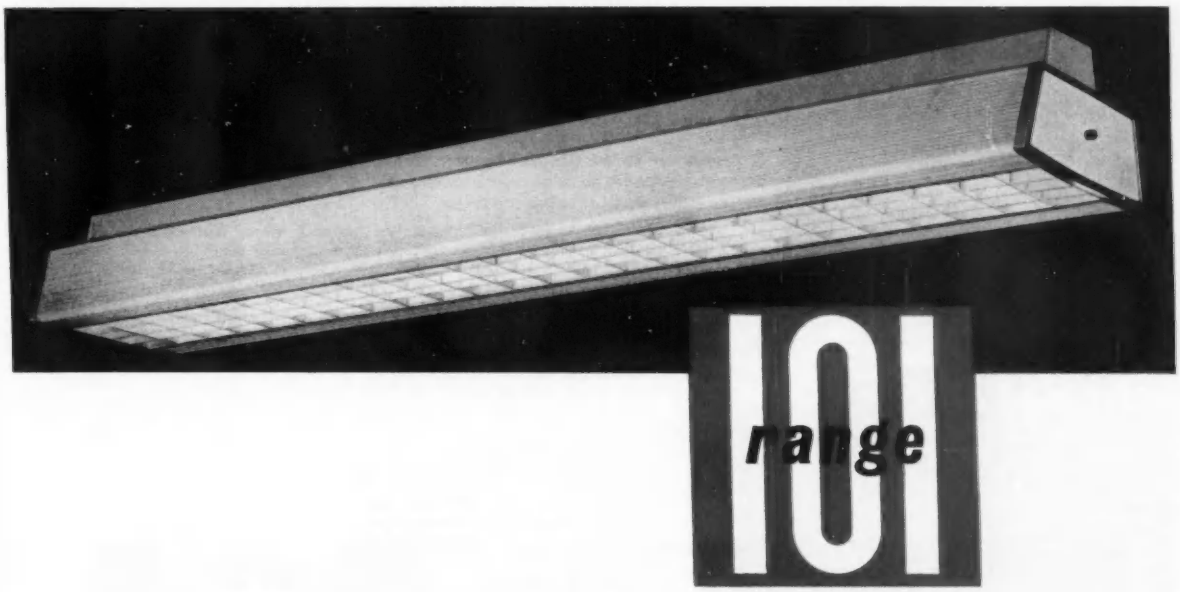

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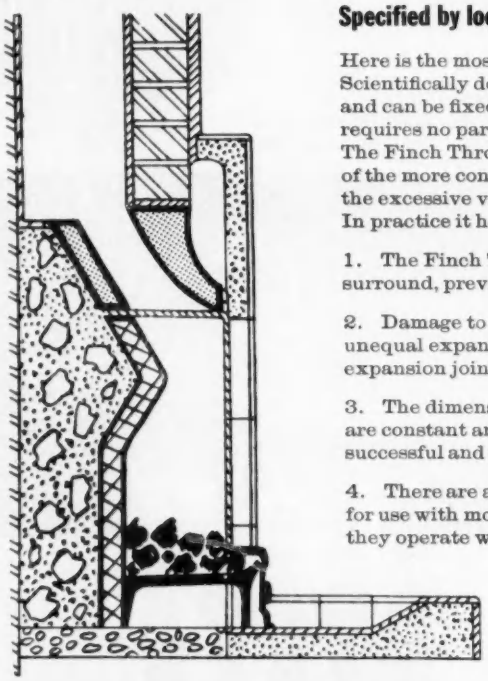

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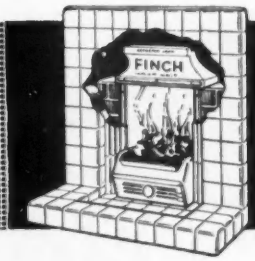

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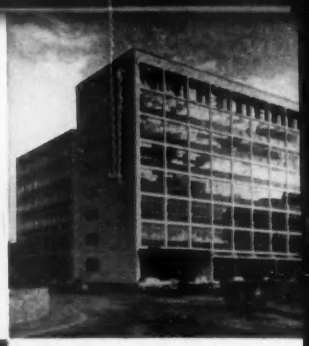

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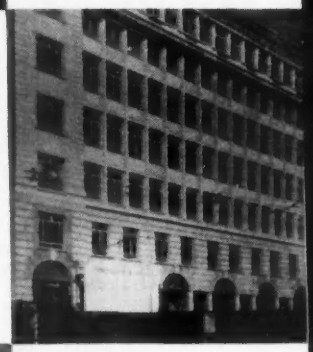

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Architects:
Easton & Robertson

34-35 KING STREET · EC
Architects:
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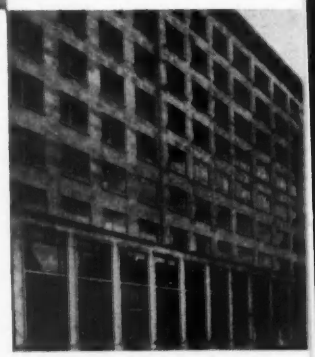
WALBROOK HOUSE
CANNON STREET · WALBROOK
Architect:
Henry Tanner

12-20 CAMOMILE STREET
Architects:
Fitzroy Robinson
& Hubert H. Bull



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Architects:
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BUCKLERSBURY HOUSE
Architects:
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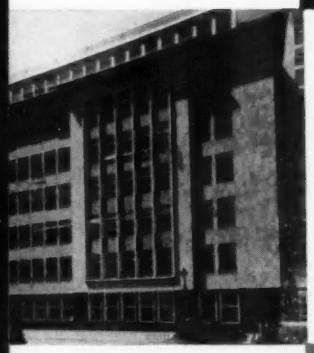

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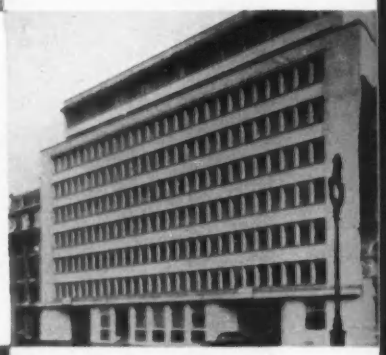
BRIDEWELL PLACE
Architects:
Trehearne &
Norman Preston & Partners

SADDLERS' HALL · GUTTER LANE
Architect:
L. Sylvester Sullivan

3-10 FINSBURY SQUARE
Architects:
Lewis Solomon Son & Joseph



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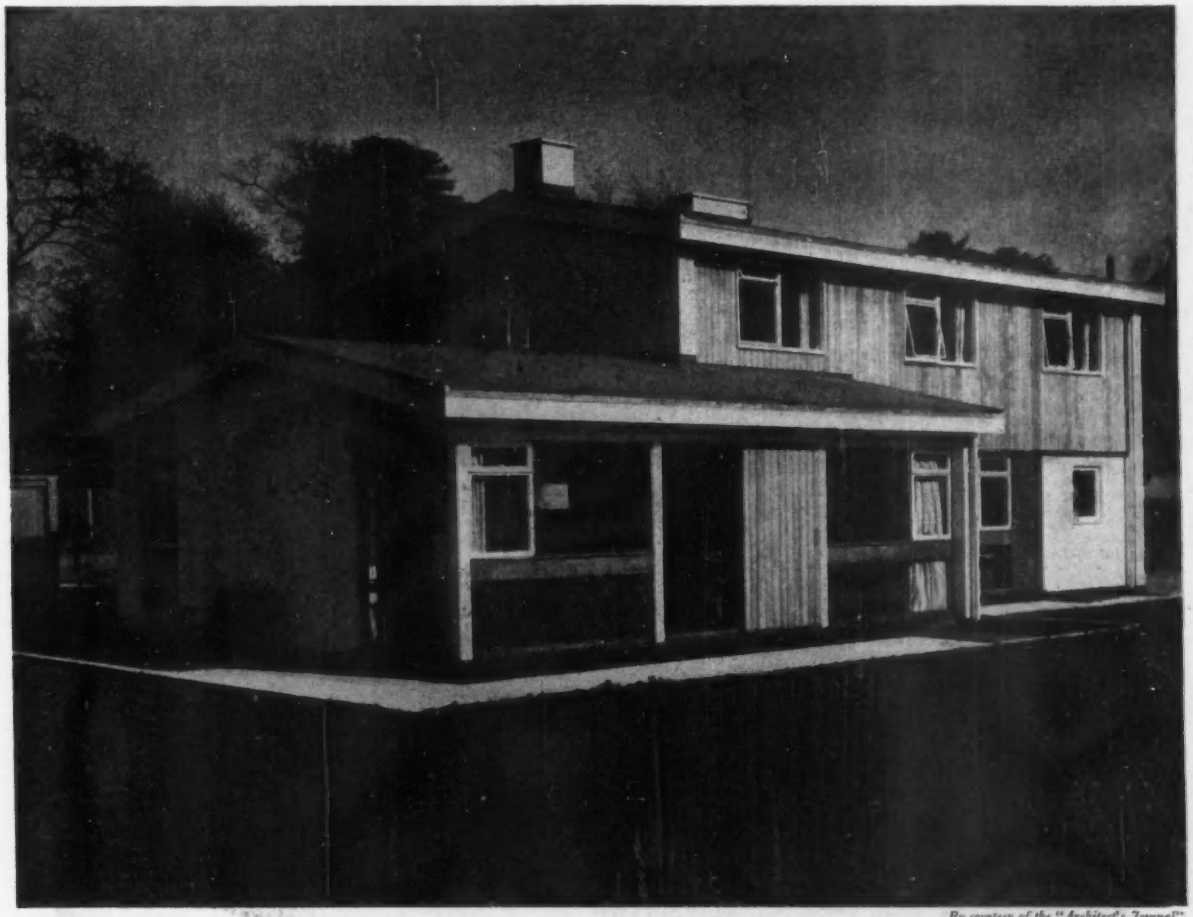

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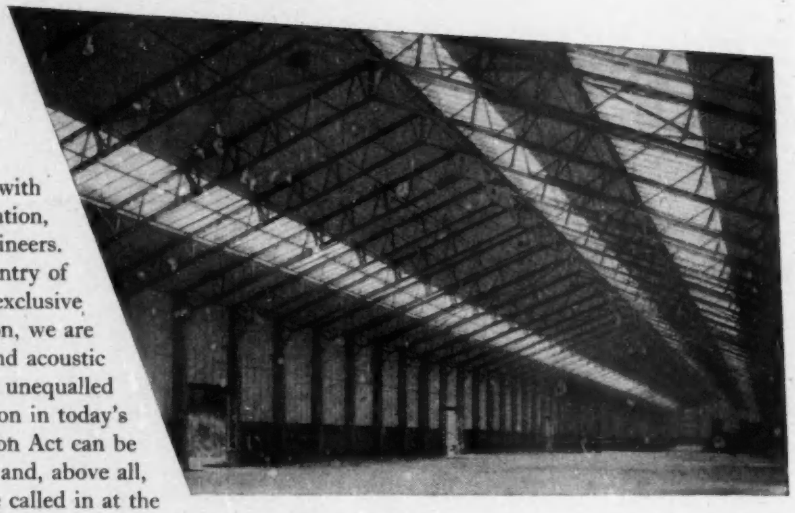

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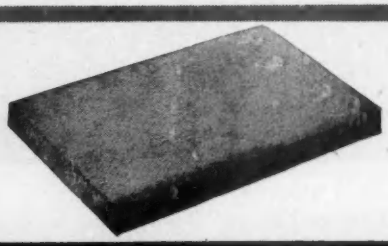

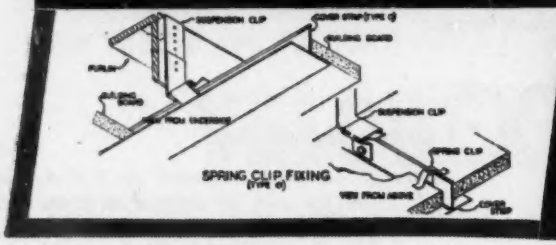

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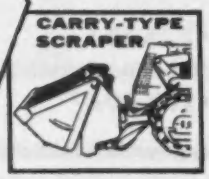

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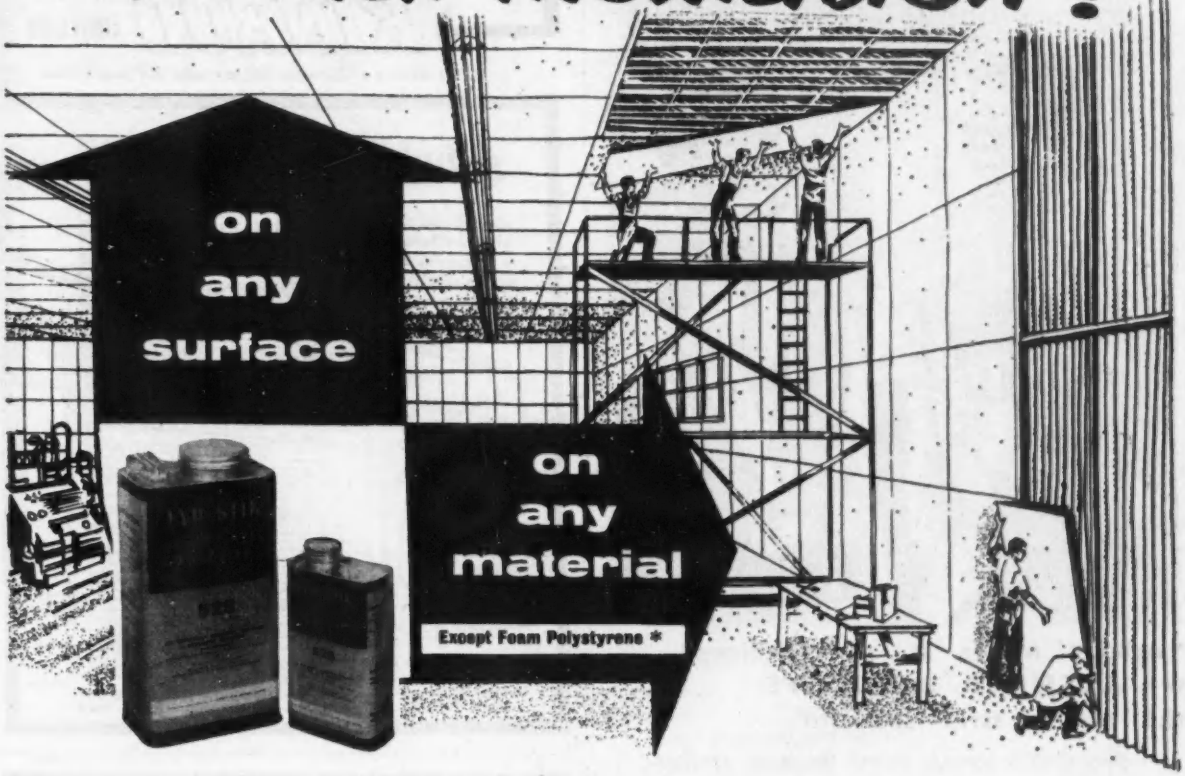

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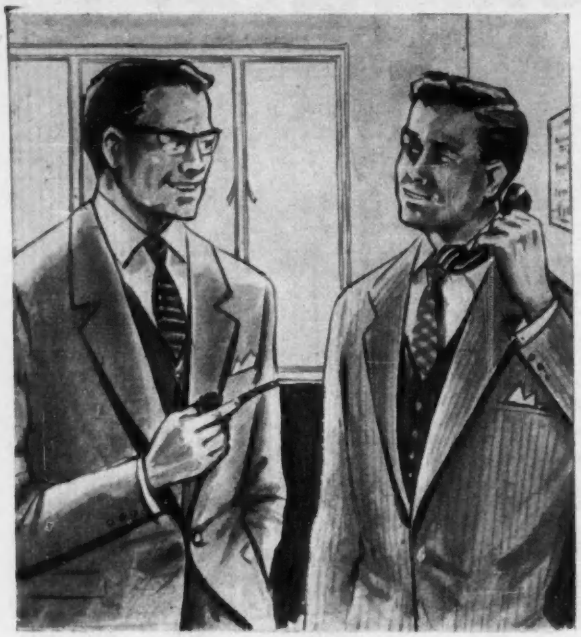

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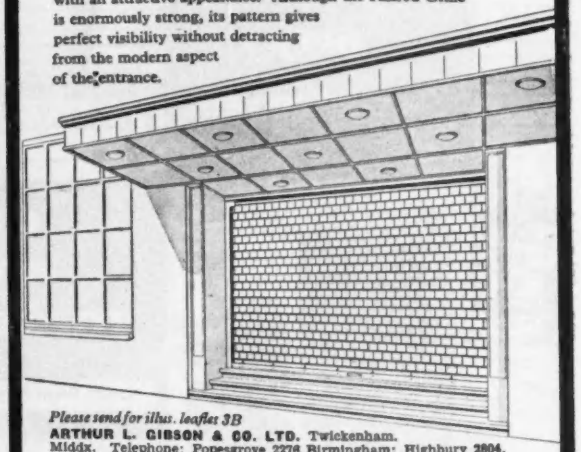

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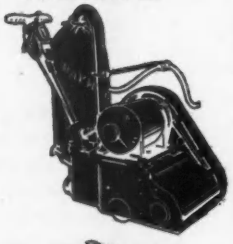

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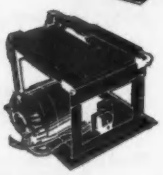

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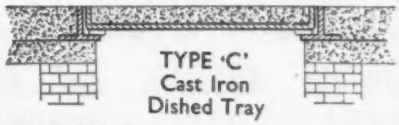

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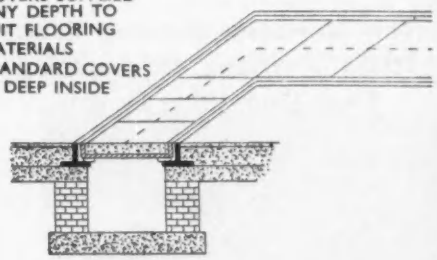

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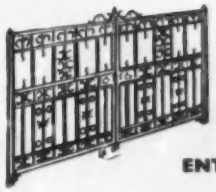

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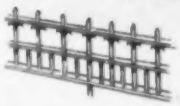

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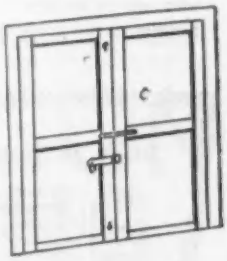

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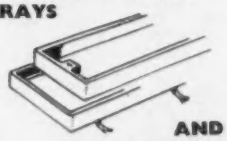

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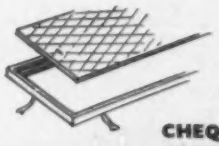

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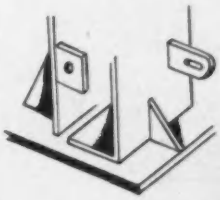

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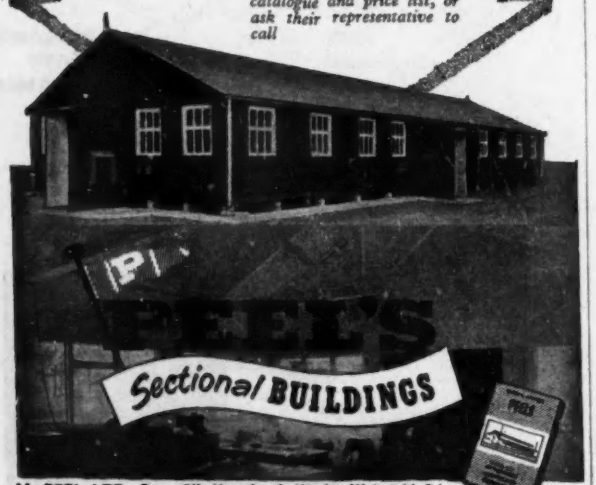

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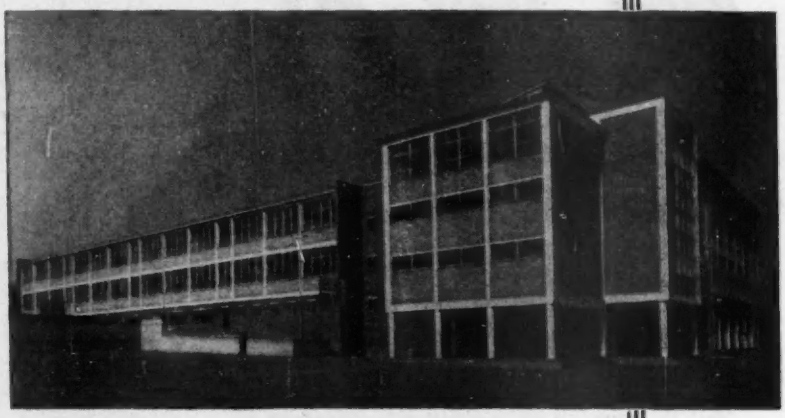

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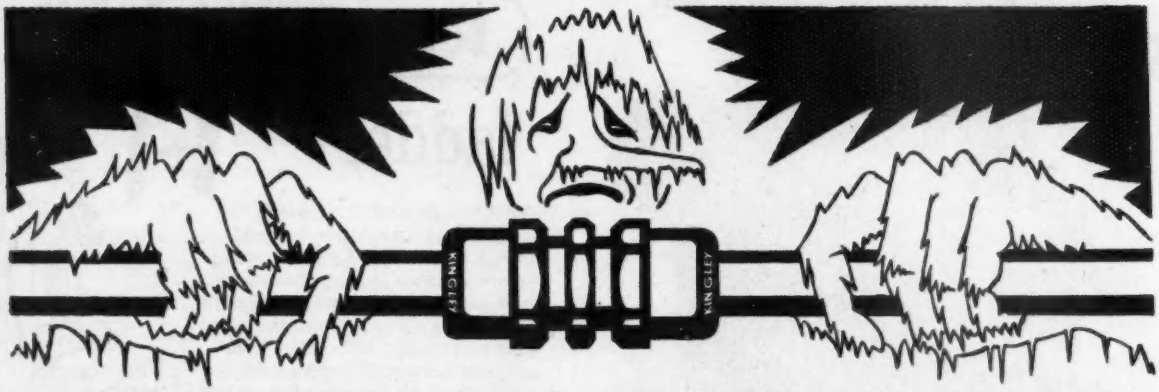

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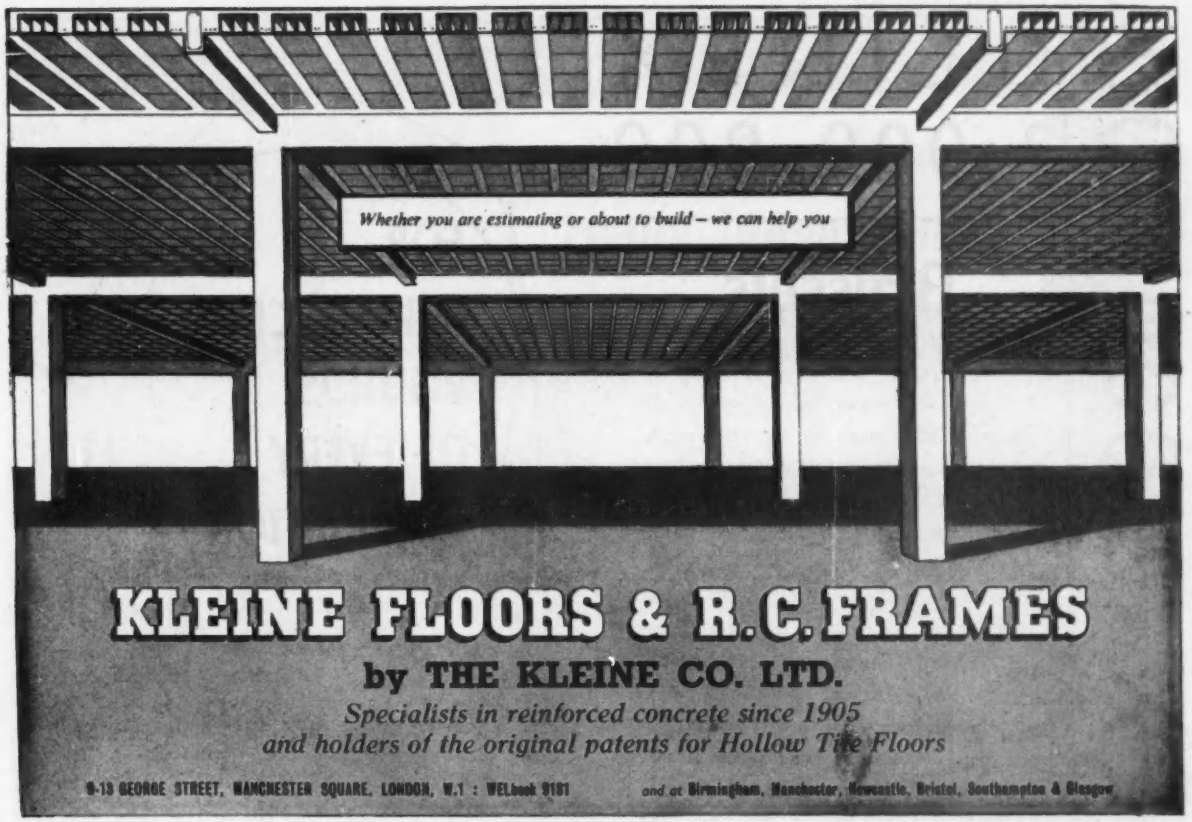

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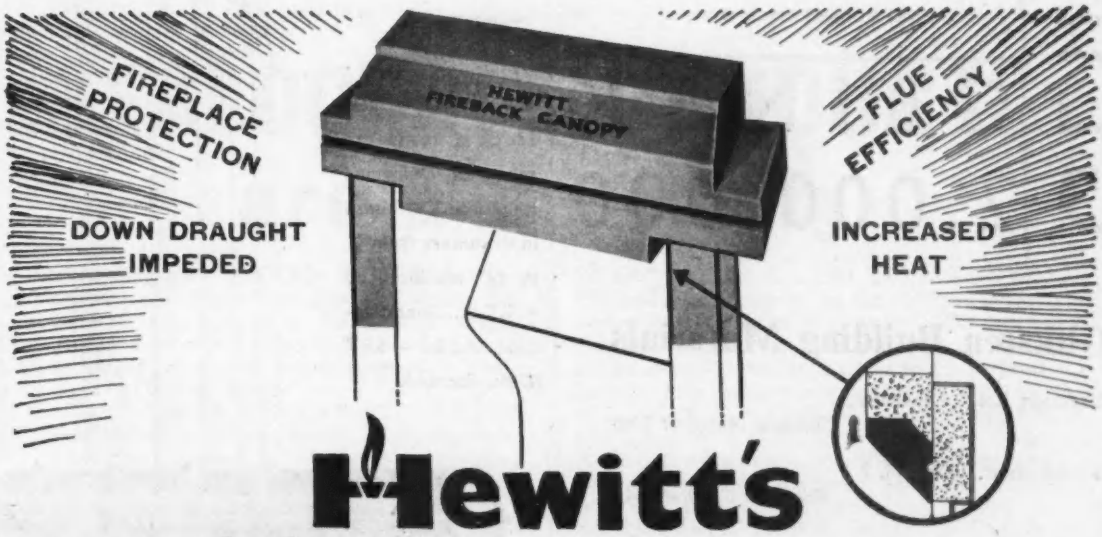

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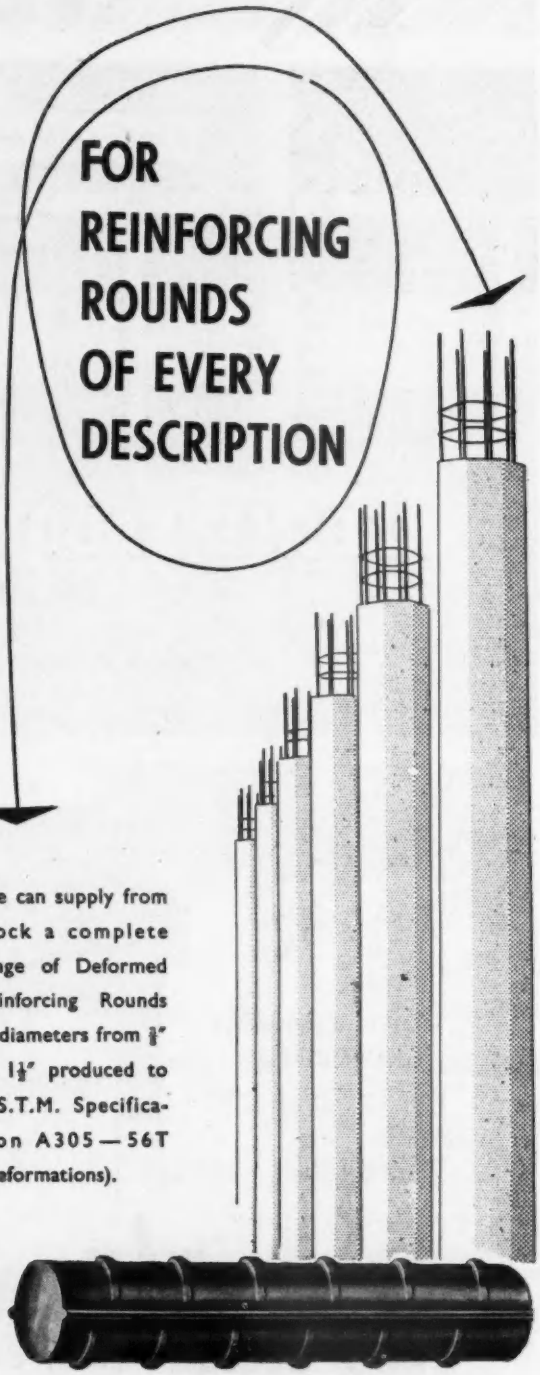

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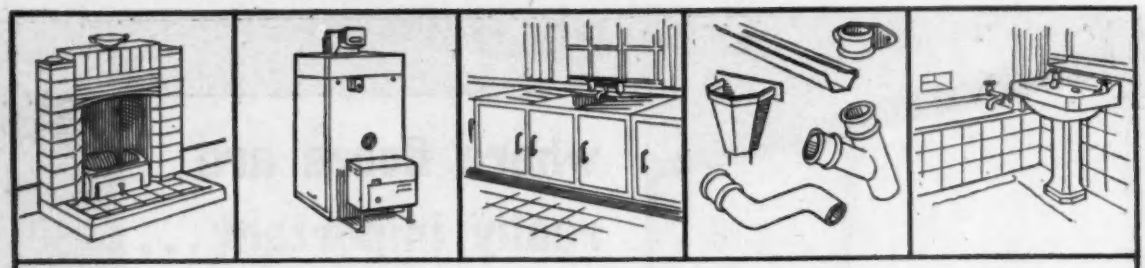

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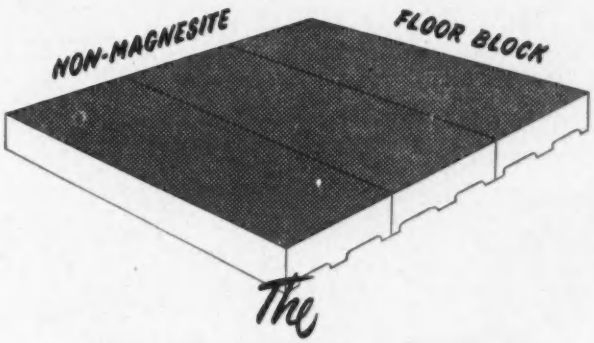

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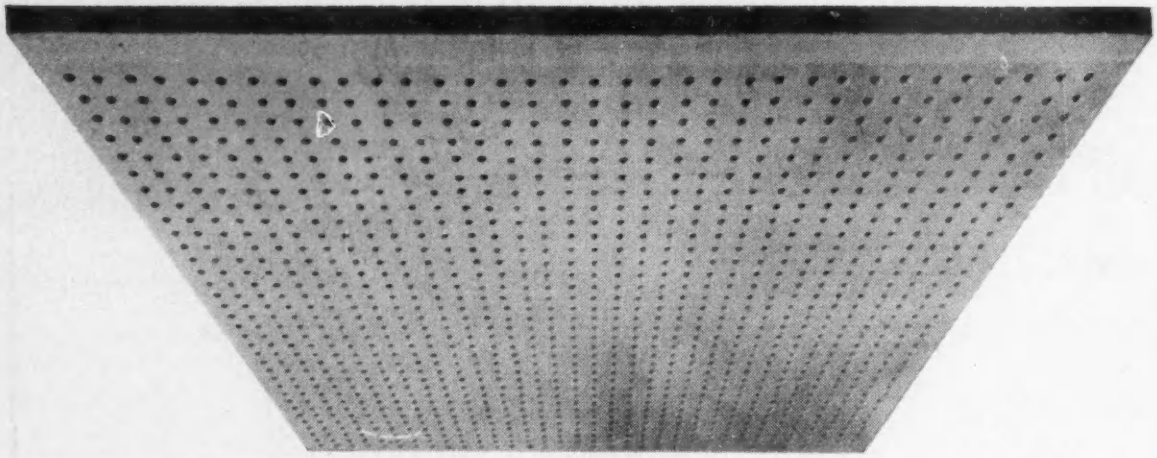

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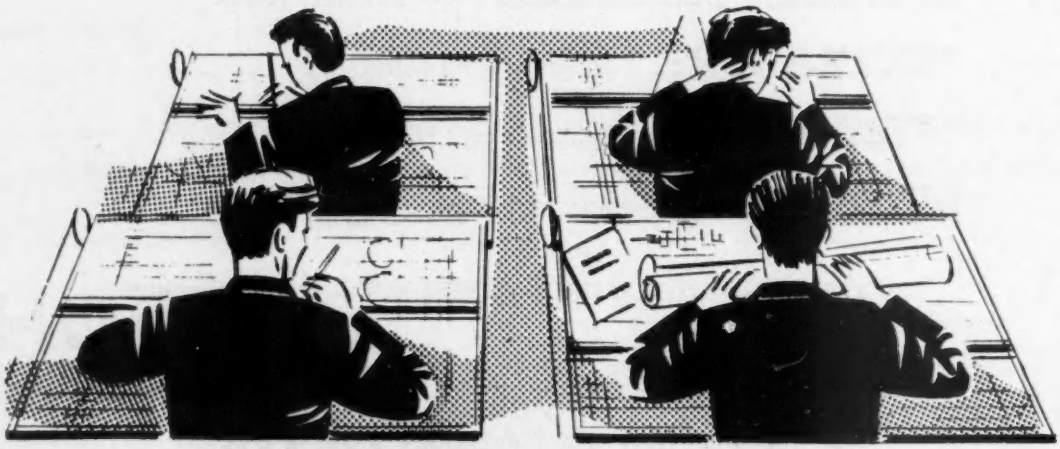

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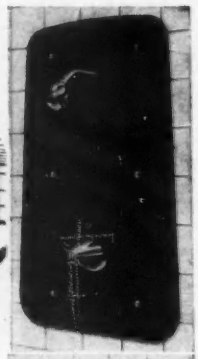

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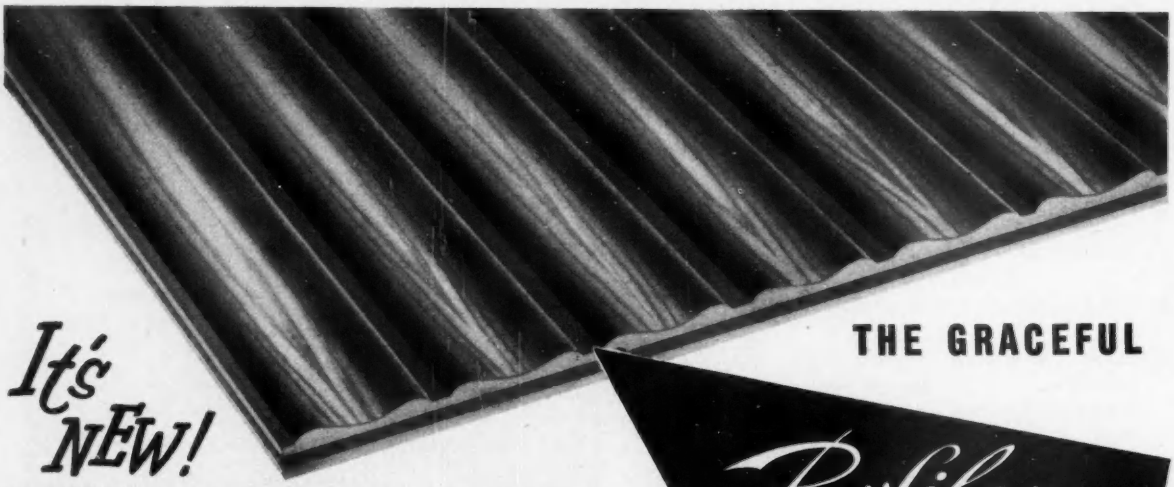

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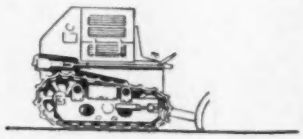

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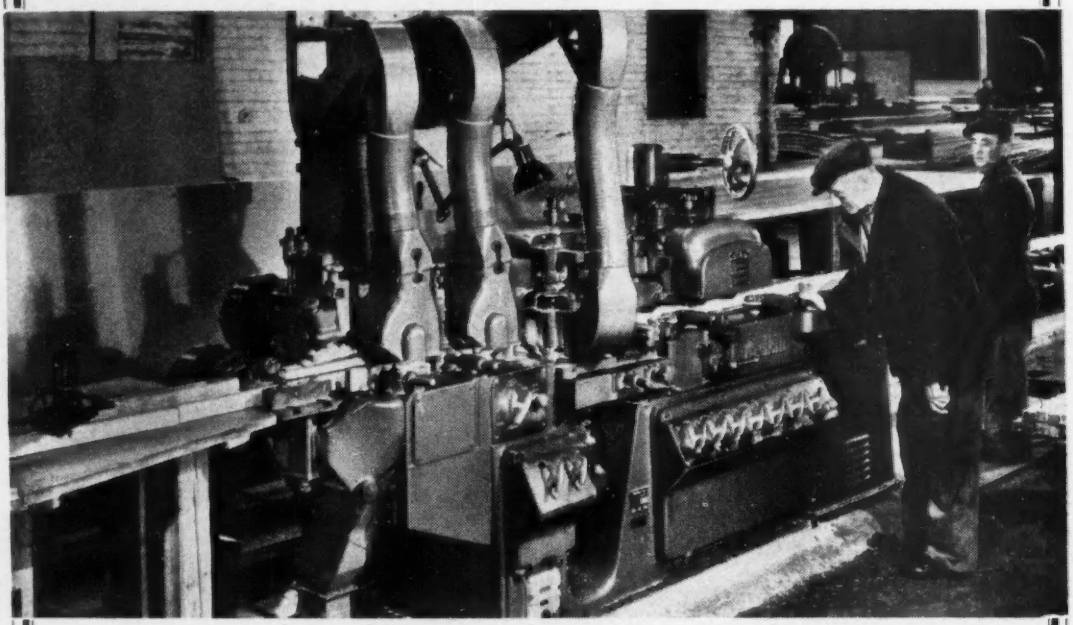

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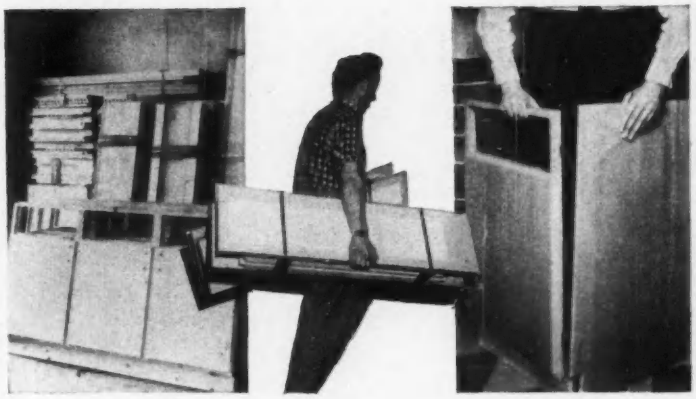

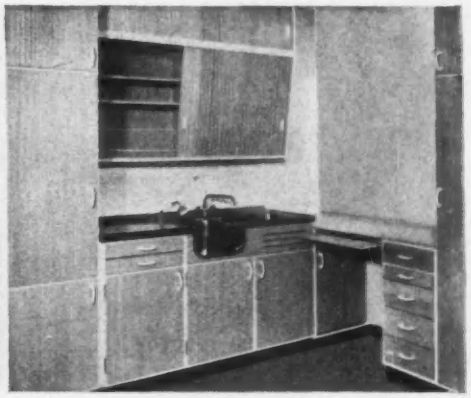

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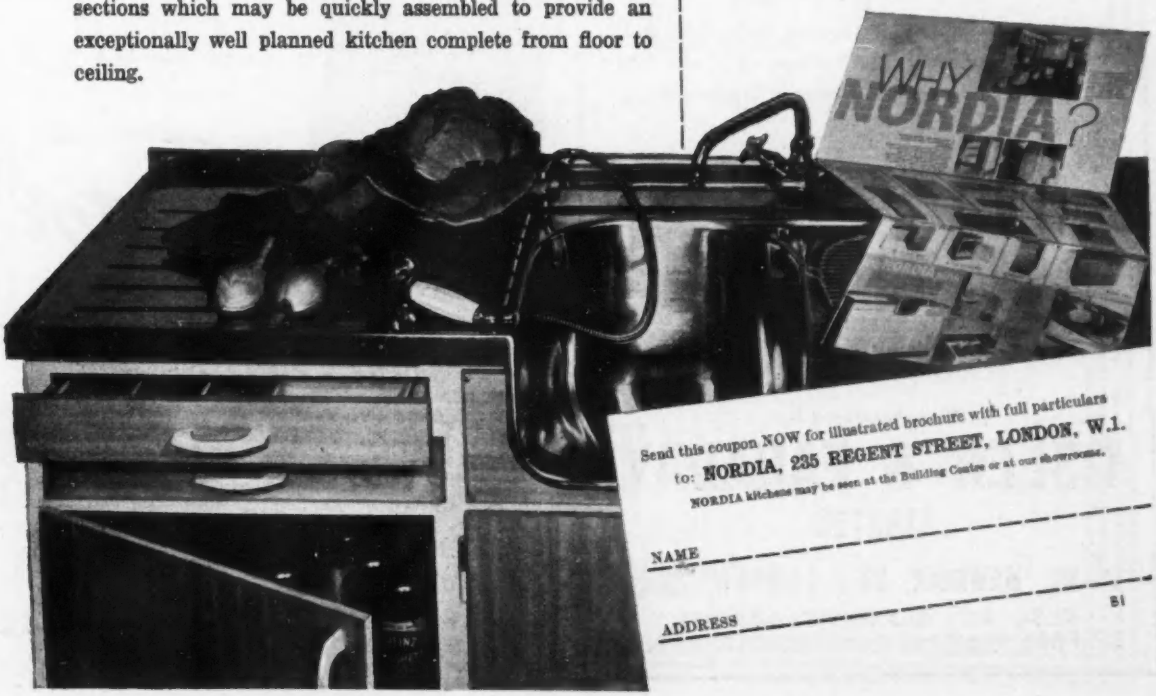

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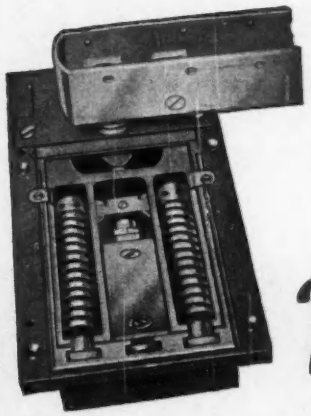

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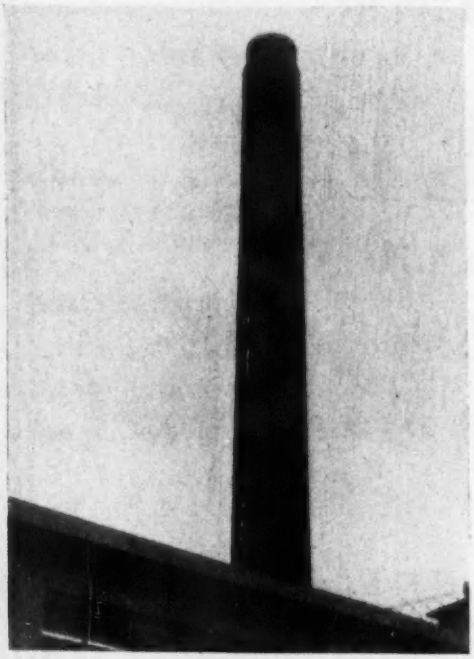

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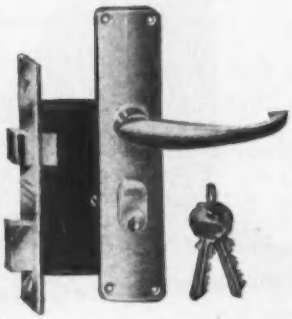

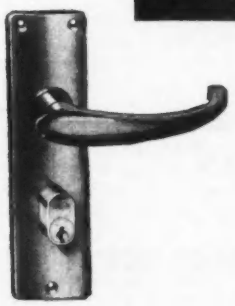

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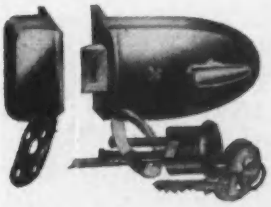

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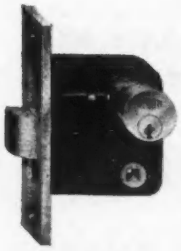

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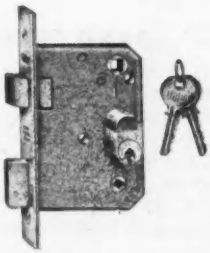

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THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

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NEWS SUMMARY

SUSSEX UNIVERSITY COLLEGE authorities have, as a first step, appointed Mr. Basil Spence to prepare the master plan. p. 396

SUTTON AND CHEAM COUNCIL have appointed Mr. Romilly B. Craze to design a Civic Centre. p. 412

A CONTRACT has been let for the construction of the remainder of the Golden-lane Housing Estate in the City, which is to include a swimming pool. p. 421

A CLAUSE in the House Purchase and Housing Bill, now before Parliament, designed to encourage and speed the giving of improvement grants for old houses, has been agreed. p. 423

BRITISH CONSULTING ENGINEERS were responsible in 1958 for £550m. worth of work as against £506m. in 1957. p. 433

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BUILDING SOCIETIES AND CONTEMPORARY AFFAIRS

AMONG the many matters of interest discussed by Sir Harold Bellman in the course of his recent address to the RICS (some extracts from it are given on page 415) were the reconditioning of old domestic property, the redevelopment of the decayed inner areas of cities, contemporary design and construction and the part that the building societies could play in these matters. As new housebuilding tends to diminish, the building societies, as Sir Harold suggested, could make a most helpful use of their funds by financing reconditioning and redevelopment. It would be an excellent thing if, in particular, private enterprise could take a due share of the work of redevelopment by erecting houses for sale to owner-occupiers with building society assistance instead of leaving it largely to the local authorities. It should be possible to work out schemes satisfactory to all parties.

We wish that Sir Harold had taken up a more courageous attitude on the question of contemporary design and construction. That the public are now well disposed towards contemporary design is shown by the alacrity with which they accept it in the form of furniture, refrigerators, washing machines, radio and television sets, etc. Is there any reason why they should object to it in their houses? It is no longer reasonable to regard it as 'a freakish product of a frenzied moment,' involving serious risk to the building societies. The risk, if there be one at all, is in supporting old and often low conventional standards which are losing their popularity.

In a recent statement on the question of contemporary design Mr. Alexander Meikle (Chairman of the Council of the Building Societies' Association) has said that the societies 'are always more likely to march with the public taste in home design than to attempt to lead it.' Then surely there is good cause to start marching!

'THE PLAY'S THE THING . . .'

A LITTLE while ago we put forward a piea for the 'Latterday Hamlets' of the building world. We have just seen the film 'The Horse's Mouth' and whilst it is not our rôle to offer film reviews to our readers, we believe that this particular film does merit attention in that it portrays the character and life of an artist. It does this with power, humour and consummate artistry, and all at a high level of attainment.

The film, as readers will know, is taken from Joyce Cary's novel of the same title. The book-of-the-film or film-of-the-book post-mortem has been carried out in more erudite circles than ours. Being in the happy position of not having read the book we were able to see the film purely as a piece of cinema, and as a piece of cinema we are of the firm persuasion that this is a Very Good Film. It is also high entertainment. Gully Jimson, the brilliant but down-and-out artist inspiredly played by Alec Guinness, lives a piece of his life under the eye of the cinema audience. Even the dullest and callowest member of that audience could not have left the cinema without having experienced at least a momentary glimpse into the inner life and vision of an artist—and without, indeed, having seen on the screen the paintings of a very real artist into the bargain. (Gully Jimson's paintings as shown on the screen are works of some distinction by John Bratby.)

With the Lutyens evening at the Architectural Association fresh in mind and Mr. Spence's words in his Address to Students still ringing in our ears, one member of the audience at least would gladly join a deputation to our newest actor-knight to invite him to consider the part of Sir Edwin. What a feast of story, character and achievement for the film-makers—and perhaps Corb to do the paintings! A Lutyens/Guinness combination ought to go a long way towards relieving the tedium of the task of 'educating the public'—to say nothing of accelerating the pace!

Notes of the Week

Sussex University College

DETAILS were given in London last week of the University College for Sussex proposed to be built outside Brighton. The sum of £1,500,000 has been allotted for capital expenditure up to 1963, and this will enable teaching blocks, library administration buildings, and social facilities to be provided, but does not allow for halls of residence; for the first stage of the University College's life, it seems that students will mainly live in Brighton, though halls of residence will be built as soon as financial conditions allow. The first vice-Chancellor will be Mr. J. S. Fulton, a former vice-Chancellor of the University of Wales.

* * *

THERE HAS BEEN some slight confusion as to which architect will design the new University. Mr. Basil Spence's name was given last week as being responsible for the master plan only of the buildings, the site for which is about four miles out of Brighton on the Lewes road. Mr. W. G. Stone, secretary of the provisional council for the University College and director of education for Brighton County Borough, tells us, however, that Press reports have given a misleading impression: the situation is that the provisional council has taken its task one step at a time, and that the first move has been to invite Mr. Spence to do the layout. Any suggestion that his connection with the University College ends there does not arise, for the provisional council has not yet discussed the design of individual buildings, though it will shortly meet to do so.

The council, we hope, will take the step of appointing Mr. Spence as architect for the whole scheme. The example of others of the newer foundations where a multiplicity of architects has had a hand in designing individual buildings is not such as to lend encouragement to a perpetuation of the process.

Irish Church Art

THE DISPLAY of Irish religious goods and ecclesiastical art, at the Irish Exports Centre, Regent-street, comes as a pleasant surprise, considering those little shops round Westminster—and, for that matter, St. Antony of Padua, writes Basil Marriott. The organisers' claim that it is 'not an art exhibition, but sets a reasonably high standard and includes some works of artistic merit' is justified.

As a professing if not dyed-in-the-woad Celt, I am always hoping that Celtic nationalism will show itself in less provocative forms. Detesting politics of any colour, I don't see much wrong with the arts as an outlet, but Druids in nightshirts and export-only Highland haberdashery seem pretty debased currency. Ireland alone seems to have kept the Celtic thread alive and spinning, and neither insularity nor assimilation has obscured the elegance of the weave—judged, for instance, by her recent entrance into the field of fashion.

In that under review, however, a good patron is evidently the Roman Catholic Church. Though this is thorny ground for a Protestant, the catalogue's quotation of Pope John's shrewd recent dictum. 'New forms of art . . . should be encouraged, because people are growing accustomed . . . and beginning to appreciate them' might well be pondered elsewhere.

Works of note include a stained glass group, where Patrick Pye stood out in the absence of Evie Hone, already represented at the Arts Council and the Tate: a Monstrance by Bro. Benedict Tutty, OSB, with his copper and lead crucifix: Oisin Kelly's wood carving of St. Joseph: an interesting Low Mass set of vestments in (believe it or not) tweed! the Altar and Tabernacle by Barney Heron Ltd., with lead reliefs by Hilary Heron; a mosaic by Louis de Brocquy; and an excellent model of a church building project by Michael Scott, FRAIA.

Building Research Congress

OUR own Building Research Station will be lending its support, and members of the Station will present papers, at the first International Congress of the International Council for Building Research Studies and Documentation (CIB), which is to be held at Rotterdam from September 21 to 25 next. The Congress, which is open to members of CIB and any other experts in the sphere of building, will be devoted to a number of subjects of topical interest to the building industry.

The subjects dealt with will relate to building research — both fundamental and applied—and to building documentation and transmission of knowledge. Attention will be given to a number of special aspects of building in tropical regions. Apart from a thorough discussion of the problems tabled, the principal object of the Congress will be to widen the horizon of the various experts active in the sphere of building.

Subjects to be discussed include: 'Design and calculation of structures; safety factors,' with an introductory lecture by Prof. E. Torroja, Director of the 'Instituto Técnico de la Construcción y del Cemento,' Spain; 'Research problems relating to the application of heavy concrete elements: introductory lectures by Prof. G. Kutznetsow of the Academy of Building and Architecture of the USSR and Dr. M. Jacobsson, Director of 'Statens Nämnd för Byggnadsforskning,' Sweden; and 'Fundamental aspects of transmission of knowledge': introductory lecture by L. M. Giertz, architect, Director of the Swedish Institute for Building Documentation. In all ten subjects will be put up for discussion. Dr. F. M. Lea, former president of CIB, and Director of the Building Research Station, is a member of the Organisation Committee. Details from: The Secretariat of the CIB, c/o Bouwcentrum, P.O. Box 299, Rotterdam, The Netherlands.

An Improved Journal

THE CURRENT NUMBER of the Journal of the Plymouth Branch of the Devon and Cornwall Society of Architects appears in a new and improved form. Editorial contents consist of an illustrated summary of the Design Pays Symposium at the RIBA, by Mr. Peter Roseveare, and a description of the new Ernesettle Secondary Modern School, designed and supervised by the City Architect's Department, Plymouth—an interesting building in the contemporary manner, well illustrated by plans and photographs. Congratulations to all concerned.

MONTREAL BUILDING PROJECT.—A model showing the three buildings that will comprise one of the largest developments of its kind ever undertaken in Canada—the $45m. Windsor Plaza in Montreal. The associate architect for the scheme is Mr. Peter Dickinson. Towering over the site, on Dorchester-street opposite Dominion-square, will be the 42-storey, 565-ft. Canadian Bank of Commerce Building. The other structures are a 22-storey office building and the newer section of the existing Windsor Hotel, which is being extensively renovated. The development is to be undertaken by the Canadian Bank of Commerce in conjunction with Maxwell Cummings & Sons and associated Montreal interests. The first four floors in the building will be occupied by the Bank, but the major portion will be available for letting

THE ARCHITECTURAL COMPETITION

Part 1.—THE YEARS OF INJUSTICE

The competition system has passed through many vicissitudes. Unless it is made easier for competitors to take part, it may die, and young men may lose the opportunity of showing their mettle.

'We require the competition as indispensable for ascertaining periodically and definitely the direction of architectural ideas.' Cesar Daly. 1861.

By Eric Ambrose, BA(Arch)(London), FRIBA

BEFORE the close of the 18th century, the patrons of architecture in Britain were members of a long-established aristocracy. Their faults were many but they were cultured amateurs of fine building whose power was only broken by the French Revolution and the Napoleonic Wars. Their place was taken by the merchant members of a new, harsh democracy who erected large numbers of churches—and lunatic asylums—probably because their enormous, collective, subconscious guilt needed a buttress—a projection which could ensure the benefactors an entry into a heaven traditionally barred to the extremely wealthy, and at the same time pursuade the poor it was God's will that they should suffer their unhappy station. All would come right in the next world where they would share a place with the only moderately rich.

After the passing of the Municipal Corporations Act of 1835 they erected numerous Town Halls—monuments to their own importance.

The architectural competition, a system designed to effect high pressure concentration and a multiplicity of imaginative solutions to a carefully stated problem, was perverted instead to produce a pool of ideas for the building committees' established favourites.

The architects realised what was happening but seemed powerless to prevent their own exploitation. As early as 1812 serious complaints were made at high level. Sir George Onesiphorous Paul protested to Perceval the Prime Minister against 'the iniquity of appointing an architect for a penitentiary and then holding a competition to obtain from the competitors the best possible points for his scheme.'

The Prime Minister did not think it was in the public interest to intervene.

In this age of power not even those committees which acted in good faith were prepared to delegate authority on questions of taste to a fee-earning artist.

The competition system became a mania which grew instead of subsiding as the years passed so that by 1857, the depression year of the Indian Mutiny, no fewer than 49 architects submitted drawings for a drinking fountain to cost £25 at Bath, and for which two premiums were offered—a guinea and half a guinea.

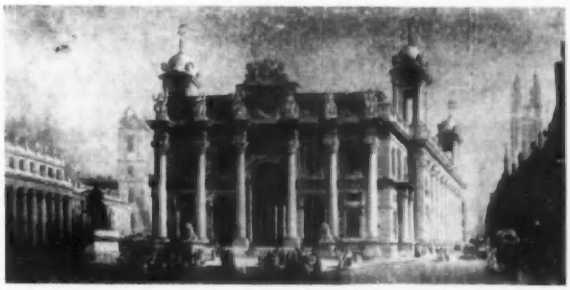
The technical Press was far from silent concerning the sorry state of affairs. Ran one editorial: 'Architecture is the only profession in which men are expected to give the results of their study, observation and experience without even a prospect of remuneration.'

Although the arrival of the Renaissance in England might seem to be a natural starting point for the competition system, the indigenous system of patronage and the immense prestige of Wren prevented it. Not even the Church Act of 1711, imposing a duty on coal to pay for the erection of 50 churches, provided the chance, for most of the work before the Act's repeal went to Wren's nominees.

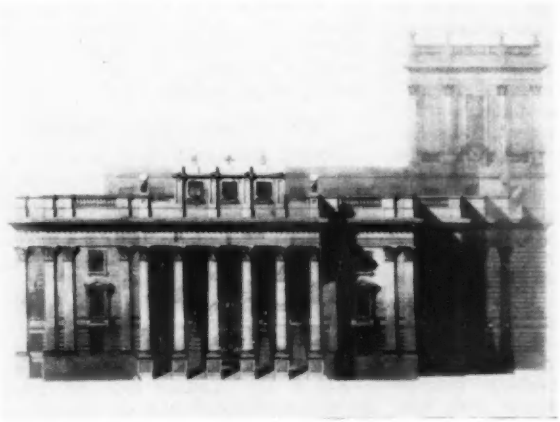
But with the passing of the giants we come to the first competition of note in England—and the story of disappointment, frustration and heart-break begins.

In 1735, five architects were invited to submit designs for the new Mansion

Donaldson's design—'First in the Best Class' but 'too expensive'



Cockerell's design—'accepted but later disqualified'



Grellier's premiated design—'couldn't be built'

Tite's design—'accepted and built'

FOUR DESIGNS FOR THE ROYAL EXCHANGE

House and after considerable string-pulling, Dance the Elder, the City Surveyor, was chosen.

1737 saw the competition for Westminster Bridge, and the Earl of Pembroke exerting sufficient pressure to ensure acceptance of the Swiss Labelye's wooden bridge.

Blackfriars Bridge followed in 1759 and even Dr. Johnson joined the aesthetic argument and wrote several letters to the *Daily Gazeteer* in favour of the semi-circle, but Mylne's elliptical design was chosen.

Ten years later Thomas Cooley won the Royal Exchange competition in Dublin; Gandon was successful for Nottingham County Hall and prison and Harrison won Chester Castle in 1788.

But despite these and other similar examples the 18th Century Competition was an isolated affair.

The RIBA Formed

No real attempt was made to provide a protecting Society of Architects until 1834. True, in 1791, Wyatt, Holland, Dance and Cockerell had formed the esoteric Architects' Club, but it was no more than an outpost of the Royal Academy, and suffered an early death. The more democratic Surveyors' Club, and the London Architectural Society were little more than sketch clubs.

The Institute of British Architects was formed to 'uphold the character and improve the attainment of architects, for very severe reflections had been cast upon the architects of the time.'

Two years later, Barry won the first great competition—the Palace of Westminster, and the cat was truly among the pigeons. Architects attacked the scheme in the national Press; competitors published their drawings together with virulent pamphlets advancing their claims.

The events of the Royal Exchange Competition in 1839 are scarcely credible. The assessors (Sir R. Smirke, Gwilt and Hardwicke) announced that Donaldson's design was best, but could not be built for the money—although contractors offered to undertake the work under guarantees. My researches suggest that Hardwicke (architect to Bethlehem) was responsible for Donaldson's disqualification. Grellier's design was premiated but declared unbuildable.

Then the assessors accepted Cockerell's design, relented and decided upon a limited competition with Tite, agreeing to accept a model from Cockerell. Tite objected and Cockerell was disqualified!

First Competitions Committee

The first RIBA committee on competitions had been held in 1838—and one can discern the erudite hand of Donaldson in the drafting of its report. It carried one surprising recommendation—that designs should be exhibited before judging took place. This was adopted and the Press was quite unrestrained in its criticisms. Thus for the Royal Botanical Gardens at Regents Park:

No. 2. This design if it may be so called. . . .

No. 20. It must have puzzled Mr. Chefferies to produce anything so bad.

No. 21. The climax of all that is rich in the ludicrous.

A frank correspondent to the *Surveyor, Engineer and Architect*, in July 1841, pointed out that if the system had been adopted for the Taylor and Randolph competition at Oxford, 'Mr. Cockerell would never have been allowed the opportunity of displaying the same architectural eccentricity he had previously shown in the British Fire Office in the Strand.'

'No Chance for Merit'

Few architects stood a real chance of winning a competition on merit. For the Licensed Victuallers' School 'The designs of the company's own surveyor excelled those of the 70 competitors—heartening to those who appointed him, but unfortunate that the directors could not appreciate such talent without putting so many persons to considerable expense in order to prove his superior abilities. . . .'

Again, at Reading, 'The committee after seeking the best talent in the whole country found a brilliant designer under their very noses in the person of the very young son of one of their own directors.'

Architects cried out for professional tribunals to judge competitions. They were ignored. Yet not all architects were prepared to submit to unjust treatment. When Thomas Henry Wyatt (who was to become PRIBA between 1870 and 1873) found that he had been awarded the premium but not the job he returned the cheque—after considerable correspondence. Lesser men were prepared to accept such impositions in the hard struggle for fame.

What happened when a young man was successful?

In the case of Elmes, despite his tender years and some considerable opposition he was entrusted with the work—as was Cuthbert Broderick, who won Leeds Town Hall at the age of 20.

But when in 1841 an unknown defeated Wild and Vulliamy, Gutch (an assessor) and Goldicutt (Assistant Secretary, RIBA) were appointed instead—and accepted the appointment.

Instances of Injustice

The contemporary Press is full of instances of injustice. In June, 1845, after the bitterness of the Carlton Club competition, *The Builder* asked pointedly whether certain rules of conduct could not be laid down 'by which competitors should be guided—a code of honour formed which should be binding on professional men and gentlemen, so that fair and honourable contests should take the place of gladiatorial contests.'

With the competitions for the London Fever Hospital and Kings College Hospital in 1851, we find William Hosking (Professor of Architecture at Kings College) producing a clear document for the guidance and protection of competitors, probably the turning point in our sad history. At the same time, the Architectural Association was performing yeoman service, and preparing a code of practice accepted immediately by at least one allied body—the Bristol Society.

In February, 1856, Sir J. A. Picton initiated the esquisse system of a two-stage competition for a library at Liverpool—a system adopted 98 years later by the RIBA.

1857, the year of the Indian Mutiny, saw the fantastic fiasco of the Foreign Office competition—to which Tite, MP, lent a grimy hand, and Scott bought some good books on 'the Italian style' to please Palmerston.

Shortly afterwards, George Morgan drew the Institute's attention to the appalling conditions governing competitions and blamed the *inherent* lack of communication between employing promotors and architect competitors. It is an oft-repeated allegation and one which I shall answer in the suggestions to be put forward in my next article, for the improvement of competitions.

In 1867 Manchester Town Hall competition produced a curious result. Assessors Donaldson and Street split the entries into two categories with separate places for 'plans' and 'architecture.' Waterhouse, placed first for plans, and fourth for architecture was declared the winner—the first stressing of the modern conception of the essential importance of the plan.

'Friends at Court'

In 1871 Capt. Fowke, RE, who had built the Albert Hall, beat Kerr (Professor of Architecture at KCL) for the Kensington Science Museum. Sixteen years later Kerr confided to the RIBA 'It's no good going into a competition unless you're sure to win. Yes, and the only way to win is perfectly well known. The man who knows how to win a competition does win, and the man who doesn't know, doesn't win. He must, in the first case, produce the best information—you know what I mean . . . and you must have a friend at Court.'

This was indeed a subtle gibe, for Prince Albert preferred the Royal Engineers and builders to architects.

The Law Courts Competition—said to have sounded the knell of Gothic for public buildings—produced a ludicrous muddle with an unwieldy panel of assessors, only three of whom were architects.

In 1881 Cole Adams and Street presented to the RIBA a memorial signed by 1,300 architects who promised not to take part in competitions unless a professional adjudicator of established repute was appointed. There was still much improvement to be made—but the battle for justice had at last been won.

Competitions Less Attractive

Today, with high taxation, we have less time for our own purposes, and the competition has perhaps become less attractive. The decision of the RIBA in 1954 to reduce labour by using the two-stage esquisse system has only once been taken to its logical conclusion—in the current RIBA Small House Competition with non-returnable dyeline prints. Assessors still ask for too much detail in the first stage.

But a new menace has also arisen, known as 'competition by tender', encouraged by official bodies and handed to official architects to administer.

Developers are invited to send their architects to see a council or corporation representative. The latter advises the architects what is likely to be approved. The developers then submit a ground rent offer and the highest figure is accepted. Never were Professor Kerr's words truer 'One cannot win a competition without information—you know what I mean.'

We are now faced with competitions which are not competitions. Nobody is bound by any rules or regulations—there are no instructions—no 'best solution.'

It is customary for architects to do this kind of work as a form of speculation. They are not forced to undertake it, but in many cases moral persuasion from an old client may be very strong. We cannot persuade architects to stop working without payment, but we can make it difficult for their clients to exert undue pressure, by making it unethical for architects to enter for such vicious travesties of a system which after one hundred and twenty-five years of struggle had seemingly shed its injustices.

(To be concluded)

CORRESPONDENCE

Churchill College

To the Editor of *The Builder*

SIR,—Among the RIBA's regulations governing the promotion and conduct of architectural competitions are the following:

1. The names of the assessors shall be approved by the President.
2. In a limited competition, each competitor shall receive a specified sum for the preparation of his design.
3. The Council or the President may sanction an exception to the regulations where, in their or his view, the interests of the client and the best interests of the profession clearly justify this course.

In the Churchill College competition both the first and second regulations quoted appear to have been significantly modified. The profession can therefore expect from the Council, or, if they were not consulted, from the President, an unequivocal statement of the reasons why these modifications were clearly justified in the interests of the promoter and the best interests of the profession..

F. HALLS MURCUTT [MC, ARIBA].
55 Peak-hill, Sydenham, SE26.

'A Dane at Oxford'

To the Editor of *The Builder*

SIR,—I have read with interest in 'Notes of the Week,' last week, that the Building Committee dealing with the proposed St. Catherine's College at Oxford are considering giving the commission to a Dane.

There is no doubt a lot of truth in the three theories set out in your column and also a great deal of virtue attached to each. But surely British Architecture has not sunk so low that we have to go beyond our shores to gather inspiration and ideas. I for one am certain that we still have a few top-ranking architects who are well able to design this building at Oxford, to blend in with its natural surroundings and at the same time not to inflict on us another one of those so-called contemporary-style edifices. It is no doubt a mere coincidence that you should portray on page 367 of the same issue a perspective drawing of a 'Church in an Office Block,' proposed to be erected at Kennington, London. Surely this is architecture gone mad!

Unless our post-war architects are willing to release us from the box-like contraptions which we have had inflicted on us in recent years and give us a few more curves instead of straight lines, I cannot see us winning any medals in international design or emulating our forefathers, whose architecture has stood the test of time and is our heritage.

A. W. OLIVER.
30 Drury-road, Colchester.

To the Editor of *The Builder*

SIR,—Commenting in a note last week on the proposal to commission Mr. Arne Jacobsen, the distinguished Danish architect, to design the new St. Catherine's College at Oxford, you refer to the view that 'some interchange of architects is a good thing.' Agreed. But I see no sign of an interchange here. Should there not be reciprocity in these arrangements?

If the competition system is to be abandoned, an agreed scheme for the interchange of architects might provide some compensation. As things are, British architects have an obvious grievance.

It is difficult to account for the apparent belief that there is not one British architect capable of designing a satisfactory modern college for Oxford. It would be invidious to mention names, but almost without thinking one could suggest a score of men who could be relied on to give a good account of themselves.

And what of the younger generation, the men of brilliant talent—are they to have no opportunity of showing their capabilities? Without a revival of the competition system the outlook for British architecture and architects is dismal indeed.

SPERO.

'Pricing the Bill'

To the Editor of *The Builder*

SIR,—'Experto Crede's' letter (*The Builder*, January 30) is very interesting as it strikes at the heart of the principles of adjustment of prices for variations measured in accordance with clause 9 of the RIBA Contract.

Your correspondent's argument is, in my view, very sound, but how would it be received in practice? I would suggest in one of the following ways.

(i) The average assistant in the profession would put it out of court—the item for planking and strutting in the bill of quantities has not been priced, therefore the same item occurring in the measured variation should obviously not be priced.

(ii) The more serious-thinking assistant would perhaps reason that (there being no depth stated in the bill, apart from the general description of 'not exceeding 5 ft. 0 in. deep') in all probability, should the trench depth shown on the contract drawings have been exactly 5 ft. 0 in., the estimator would still not have priced the item. In any case how did he know in the first place that the depth was 2 ft. 6 in.—did he carefully inspect the drawings in the architect's office before submitting his tender? (Many estimators would if they had the time, but I suggest the majority under normal circumstances do not!) No, most of the more 'serious-thinking' assistants would not, in my opinion, give effect to the adjustment, at least not without referring the question to the higher authority of their 'Senior partners' or principals.

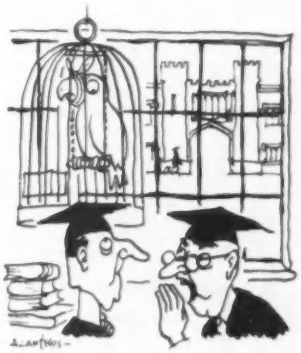
(iii) Most principals in the profession would, I think, be more favourably disposed to the argument that, after all, the contractor obviously has a point. If they were *reasonably* sure that the depth of 2 ft. 6 in. was known to the estimator and it was the knowledge of that depth that influenced him in deciding not to price the item, then surely it is only equitable in the changed circumstances (and, on the basis of the points raised by 'Experto Crede') for the priced variation to reflect the additional cost.

So it can be safely assumed that the average quantity surveyor would not accept the point, and this argument is sound, mainly, I suggest, because it rings so clearly of the age-old distrust between quantity surveyors, in private practice and in industry, that the latter is 'trying it on.'

It is my confirmed opinion that there is now far more mutual trust amongst quantity surveyors than there was years ago, and I am convinced that, as the standard of quantity surveying improves with the insistence on the employment of well-trained, qualified (for preference), and properly experienced surveyors, in both the industry and private practice, this all-important trust will become the rule rather than the exception.

Incidentally, should I be out of order to suggest that, if your correspondent found that he was coming up against the proverbial brick wall with his argument, a better solution might be to advance, as his case for reimbursement, the third paragraph of Clause I of the RIBA form? This states, to my mind quite clearly, that: 'If compliance with architect's instructions involves the contractor in . . . expense beyond that provided for in, or reasonably contemplated by, this contract, then . . . the amount of such . . . expense shall be ascertained by the architect, and . . . added to the contract sum.'

B. N. WOODCOCK [FIQS].
42 Lawrence-drive, Ickenham, Middx.



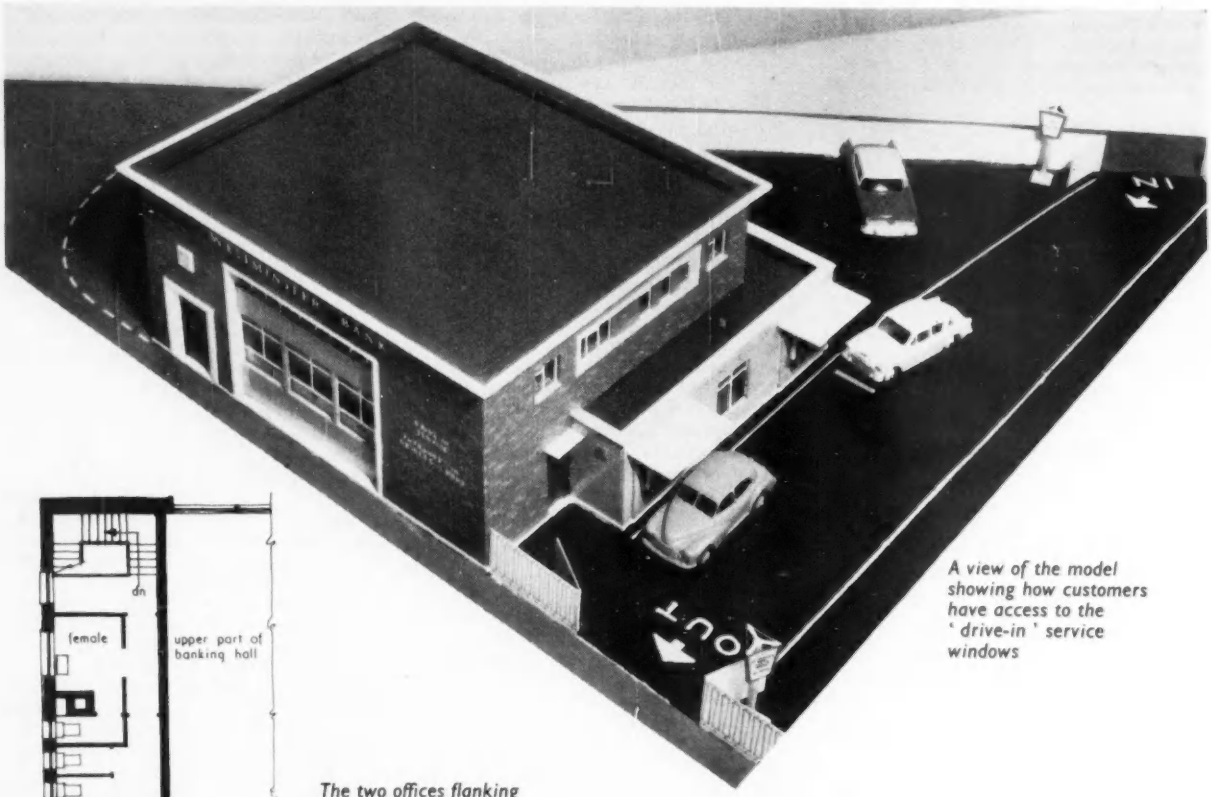
'For Heaven's sake, don't mention Danish architects!'

WESTMINSTER BANK, Princes-road, Liverpool

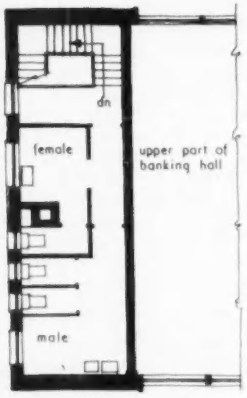
Architects :
Sir ALFRED SHENNAN & Partners
in collaboration with S. G. LAWRENCE, ARIBA, Architect to the Westminster Bank Ltd.

Quantity Surveyors :
LAY & Partners

General Contractors :
A. HOPLEY (Little Sutton) Ltd.

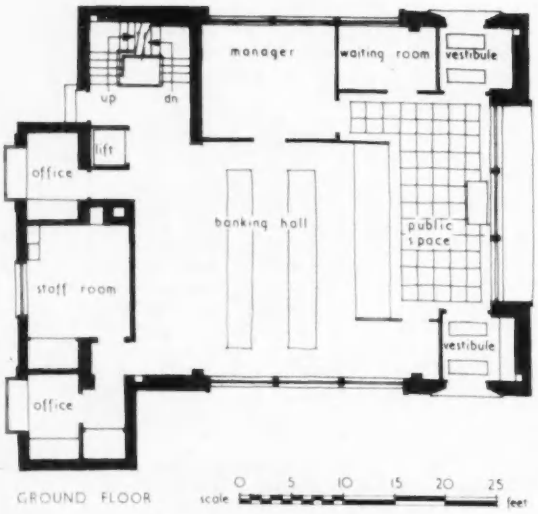


A view of the model showing how customers have access to the 'drive-in' service windows



FIRST FLOOR

The two offices flanking the staff room at the rear of the banking hall are fitted with special 'drive-in' service windows



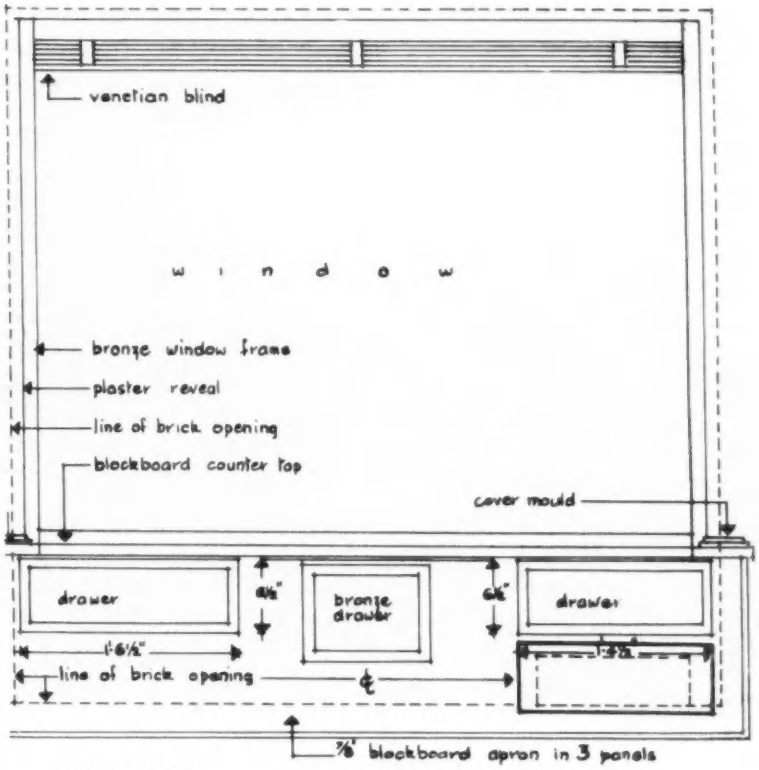
GROUND FLOOR

THE Westminster Bank is the first bank to provide British motorists with drive-in banking service. Two 'drive-in' service windows are provided in the rear of the building with an access road from Princes-road and exit into Berkley-street, appropriately sign-posted. Each window consists of a duplexed armour-plate glass window 5 ft. long by 4 ft. high, enclosed in a bronze framework. At the centre of the base of the window is a bronze drawer, at the side of which are the microphone and loudspeaker of a two-way speaking system.

On approaching the 'drive-in' service windows, the motorist's car will pass over a traffic pad in the approach way (similar to those used to control traffic lights). As the front wheels pass over the pad, a buzzer sounds for approximately four seconds in the Bank and one of two indicator lights is illuminated in case it should be necessary to warn the cashier that a customer is approaching ; as the rear wheels pass over the pad, the light is extinguished.

Each of the two cashiers operating the 'drive-in' service is seated in his own special office, connected by internal telephone to the Manager's room and the main banking office. On his desk is a microphone by means of which he speaks to his motorist customers and set in the desk, under a glass panel, is the drawer which only he can operate ; this is used to pass cash and cheques, etc., to and from the customer outside.

The windows were designed by the bank's own Architect's office.



WINDOW DETAIL

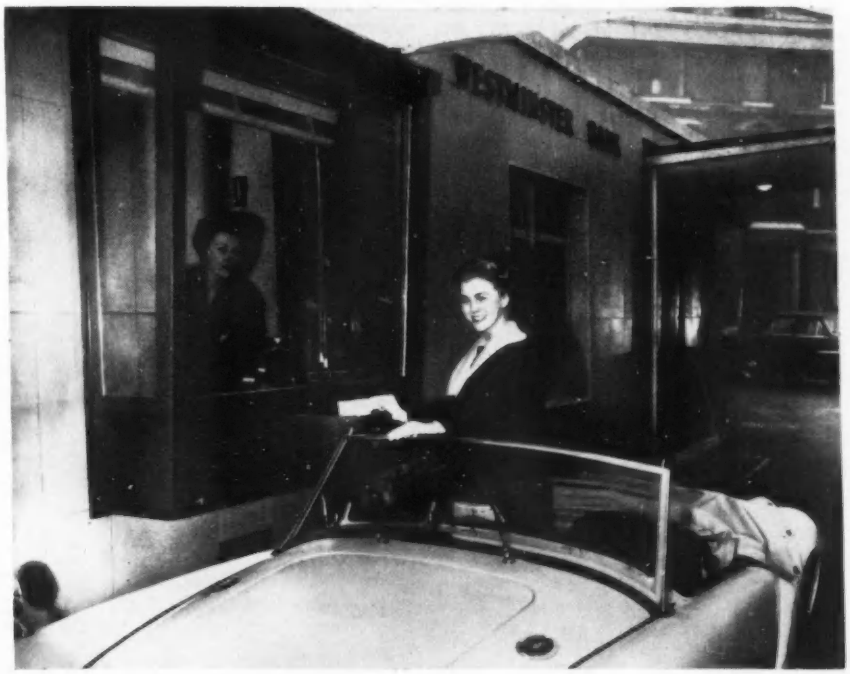
In addition to the two 'drive-in' positions at the new branch, conventional banking service is available in the main banking hall with pedestrian entrances in Princes-road and Berkley-street.

Features of the main banking hall are the latest two-level counters which enable cashiers to attend to their customers without leaving their special swivel chairs and the electric floor heating system which makes use of 'off-peak' current.

The exterior of the bank is faced with warm multi-brown facing bricks with artificial stone architraves, cornices, etc., in a warm cream colour. The three main elevations have large recessed windows faced with pearl grey faience tiling. This tiling is repeated on the single-storey rear offices.

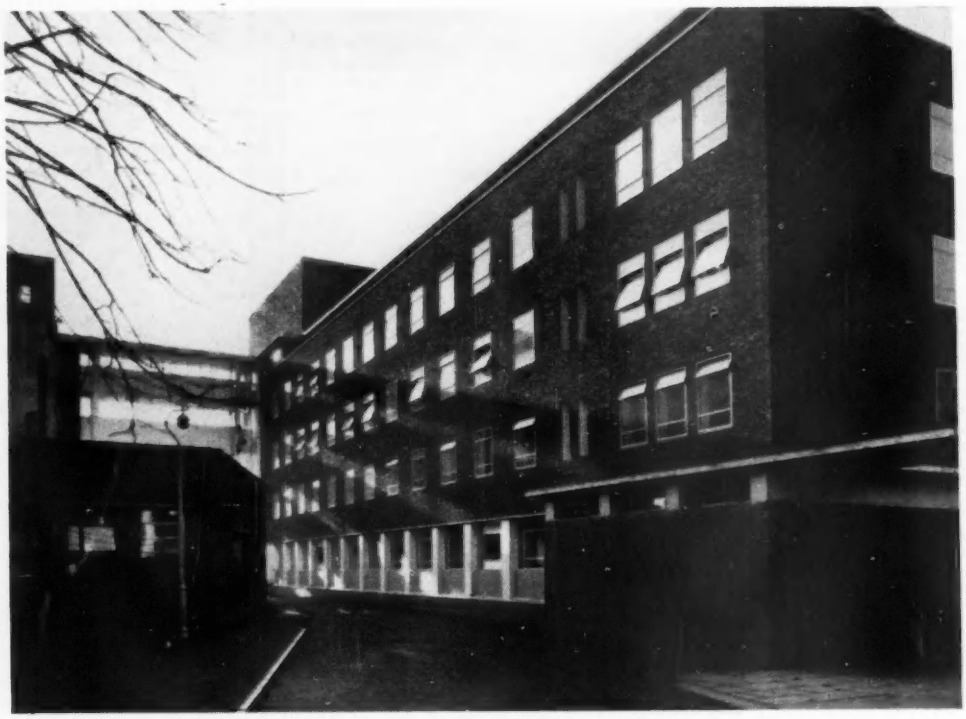
Westminster Bank, Princes-road, Liverpool

A 'drive-in' window in use. The height of the sliding drawer is designed for easy use from the window of the average saloon car which the majority of the customers are expected to use



Sub-contractors and Suppliers:

Speaker system and internal telephones, Yorkshire Telephone Systems, Ltd.; *'drive-in' bank windows*, Westminster Guild, Ltd.; *'drive-in' bank armour plate glass*, Pilkington Bros., Ltd.; *internal fittings*, Joseph Rawlinson & Sons, Ltd.; *tarmacadam*, General Asphalte Co., Ltd.; *lettering and signs*, Chase Products (Engineering), Ltd. *and* Edmett & Co.; *strong room and book room shelving*, W. H. Wilcox's; *furniture*, City Equipment Co., Ltd. *and* John Rhind & Sons, Ltd.; *electric wiring and lighting*, Economic Electric (Liverpool), Ltd.; *fluorescent light fittings*, Thorn Electrical Industries, Ltd.; *sanitary fittings*, Alfred Goslett & Co., Ltd.; *linoleum and rubber*, Dodwell & Co., Ltd.; *metal windows and glazing*, Williams & Watson, Ltd.; *acoustic ceiling*, Armstrong Cork Co., Ltd.; *ironmongery*, N. F. Ramsey & Co., Ltd.; *concrete floors and piers*, Messrs. Frazzi, Ltd.; *bank crest*, Bond & Hall, Ltd.; *artificial stone*, Trent Concrete, Ltd.; *terrazzo*, Messrs. Conway Tile & Terrazzo, Ltd.; *faience tiling*, Hathernware, Ltd.; *structural steelwork*, Dunlop & Ranken, Ltd.; *window opening gear*, Arens Control, Ltd.; *bullion lift*, Elliston, Evans & Jackson; *metal balustrades, fencing and gates*, Messrs. Peakes (1932), Ltd.; *plumbing*, Messrs. Murther; *plastering*, Messrs. A. R. Ball; *night safe*, Chubb & Son's Lock & Safe Co., Ltd.; *strong room doors*, John Tann, Ltd.



The northern part of the east elevation and the bridge connecting with the existing hospital on the left

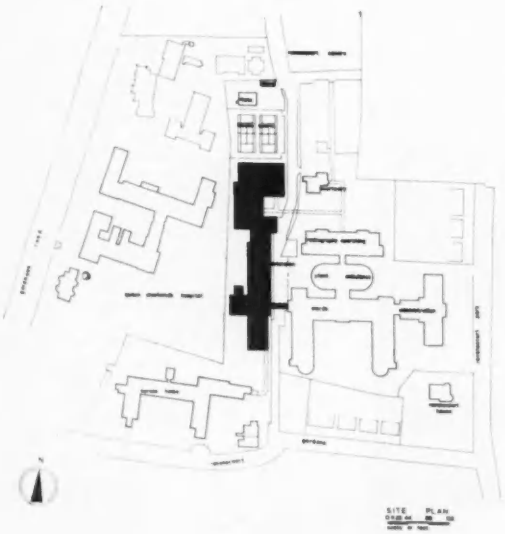
WAKEFIELD WING, THE ROYAL MASONIC HOSPITAL
Ravenscourt Park, London, W6

Architects :
Sir JOHN BURNET, TAIT & Partners

Consulting Engineers :
BYLANDER & WADDELL (Structural)
J. STINTON JONES & Partners (Mechanical)

Clerk of Works :
A. J. HUMPHREYS

General Contractor :
WILLIAM WILLETT Ltd.

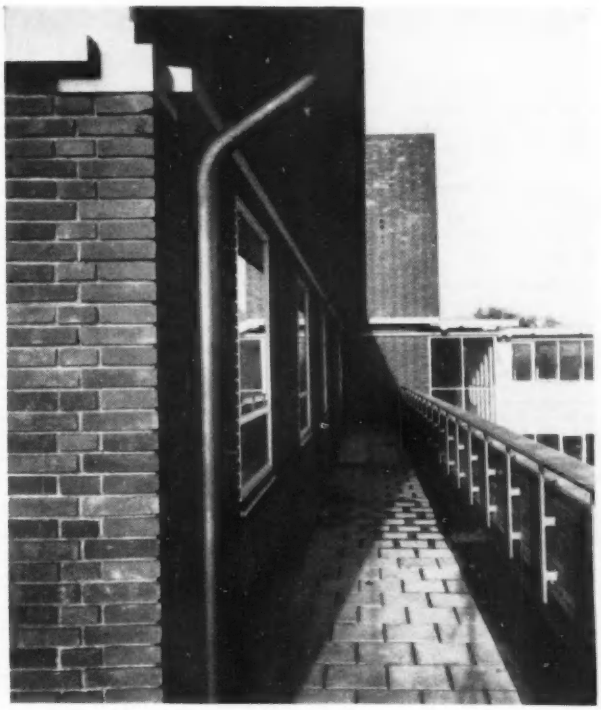


IN planning the Royal Masonic Hospital the land on the west side was reserved for future extensions and when the Governors of the hospital decided that extensions must be proceeded with the architects of the original hospital were commissioned to prepare a scheme. The site was substantially level and runs north to south between the existing pedestrian right of way on the east and Queen Charlotte's Hospital on the west. This produced a long, narrow building in which the majority of the rooms have east or west daylight. The laundry and boiler house are positioned at the north end of the site, adjacent to the approach road.

Town Planning control for this hospital area restricted the outlines of the building and made it necessary to construct an extensive basement in waterlogged conditions in order to provide the accommodation. The clients laid particular stress that the new extensions be made to harmonise with the existing hospital, and that the new extensions be connected to the main hospital by means of a bridge, so that the specialised facilities of the existing hospital need not be duplicated. The ground floor could not be connected to the hospital because of the right of way.

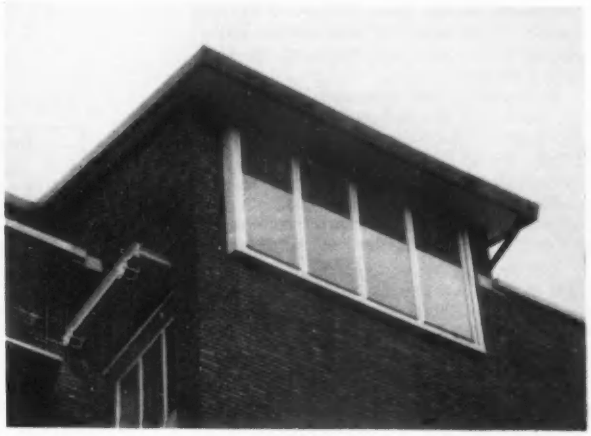
The basement, with its connecting tunnels, provides an easy access between the Nurses' Home, and existing hospital, and the new boiler house, for all services and wheeled traffic, also adequate storage rooms for the existing hospital and new extensions.

On the ground floor additional accommodation for the Nurses' Training School is provided on the south



left : *A detail of the fourth floor balcony to the nurses' quarters with the upper level of the connecting bridge on the right*

below : *A typical eaves detail*



below : *The south-east corner seen from the access road to Ravenscourt-gardens showing the connecting bridge and the glazed staircase tower*

below right : *The west elevation with the exterior of the chapel*

Wakefield Wing, Royal Masonic Hospital

Wakefield Wing, Royal Masonic Hospital

end of the building. The Chapel, which will be used by all denominations, is two storeys high, and provides seating for 150 persons on the ground floor, with space on the first floor balcony for bed cases. The physiotherapy department, which was situated on the ground floor as it has a number of out-patients, provides the accommodation for the normal physiotherapy facilities with the addition of a large sunken pool for hydro bath treatment.

The first floor has a suite of six consulting rooms at the south end of the building; the remainder of the floor provides a nursing unit of 18 beds as a children's unit. This is designed for easy conversion to an adult unit if required.

Second floor includes additional accommodation for the pathology department at the south end of the new extension. The remainder of the floor provides a nursing unit of 28 additional beds.

The third floor contains a nursing unit of 32 beds and the fourth floor accommodates 29 nurses' bedrooms and ancillary rooms.

The laundry on the ground floor, north end of the main extensions, has been planned to deal with the whole of the hospital's laundry. The boiler house is constructed around existing oil tanks and is designed to take the load of the existing hospital and the new extensions, the existing boiler house being used as a stand-by in case of emergencies.

The building has a steel frame on normal concrete foundations. The water table (the site is near the River Thames) is about 3 ft. above the basement floor level. The retaining wall is not waterproofed and any seepage can run through the hollow blocks, on which the basement floor is laid, to a central channel and sump pump.

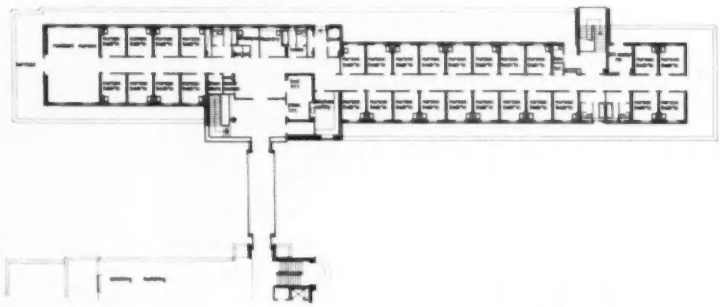
The brick cladding is laid in monk bond with special 'L'-shaped bricks at the corners to avoid headers and the bricks match the walls of the existing hospital. Portland stone is used on the ground floor columns and for copings, etc. The bridge is also steel framed, clad with curtain walling and the same system is used on the glazed staircase tower. Two of the floors in the bridge slope to line up with those of the existing hospital.

The pitched roofs are finished in copper over insulation boarding and 1 in. boards on timber rafters. The flat roofs are finished in asphalt with a variety of covers according to requirements.

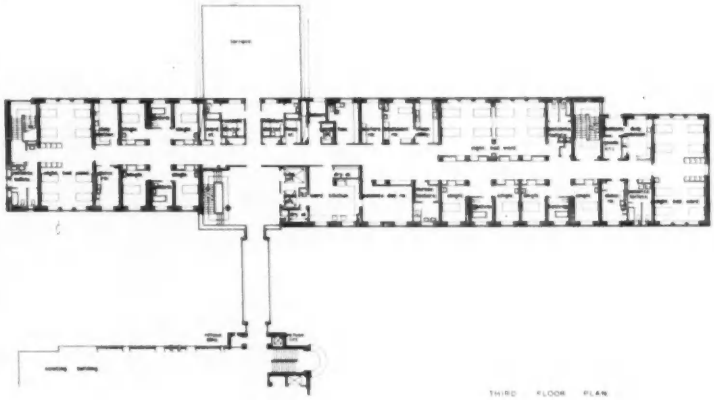
Internal finishes include terrazzo on the staircases and lino or thermoplastic tiles in the corridors. There is a false ceiling of plaster board screwed to timber battens which conceal all the service runs along the under side of the structural ceilings in the corridors. The hydrotherapy pool is finished internally in mosaic, externally with terrazzo, as is the floor of the pool room. The walls are finished with glazed tiles and the ceiling is covered with cork tiles.

Floors in the wards are wood block and the eight-bed wards have oak panelled walls, other wards have plastered walls. The wards contain built-in wardrobes designed by the architect and are generally lit by concealed cold cathode lighting. Each bed position is equipped with radio, telephone, piped oxygen and a vacuum point.

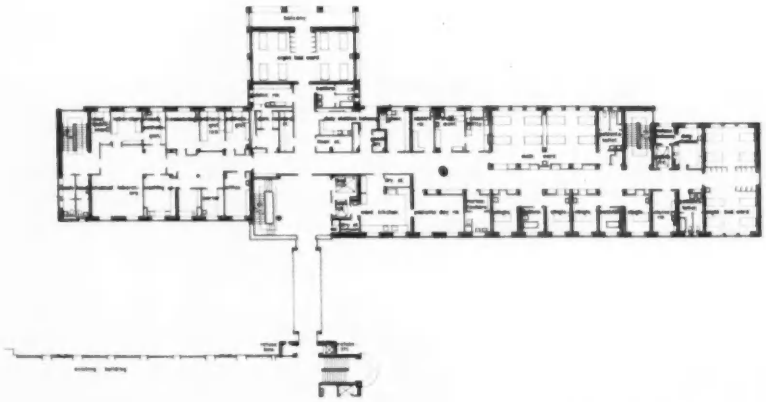
PLAN OF TOWER



FOURTH FLOOR PLAN



THIRD FLOOR PLAN



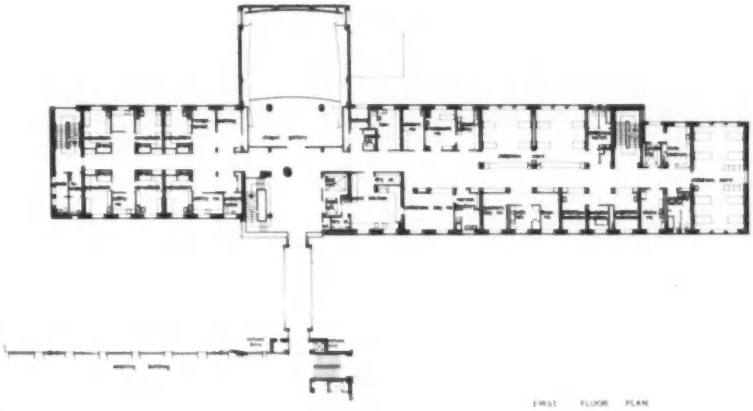
SECOND FLOOR PLAN

Wakefield Wing, Royal Masonic Hospital

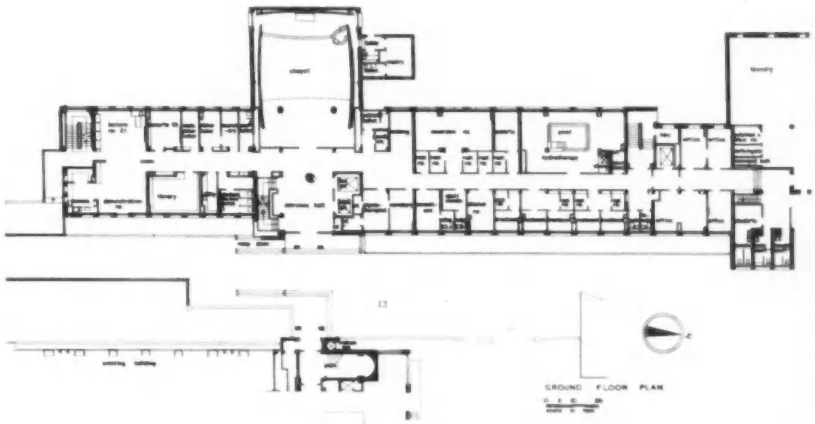
The individual bed lights may be dimmed. The corridors and other rooms are also equipped with vacuum points and the cleaners need carry only a hose when using the vacuum as this may be plugged in at any of these positions.

In the chapel the vertical boarded side walls are formed by teak panels 18 ft. high by 1 ft. wide finished with bronze channels on the front edge. There are 1½ in. gaps between panels in which are fitted unit heaters, and concealed cold cathode lighting is used around the top of all the chapel walls.

The wall behind the altar is constructed in glazed cream Dutch 2 in. bricks and the altar is in white terrazzo with a pick finished top. The cross is teak and is lit from behind by concealed lighting. The waist-high rail along the side walls also contains concealed lighting and is finished in bronze and green leather. The communion rail is bronze with green leather kneeling pads. The pulpit has a timber frame and is covered with bronze and green leather. The skirting is matt black plastic, the raised floor on which the altar stands is large aggregate terrazzo and the rest of the floor space is carpeted. The ribs on the front of the balcony are bronze and the rail is bronze and white plastic.



FIRST FLOOR PLAN



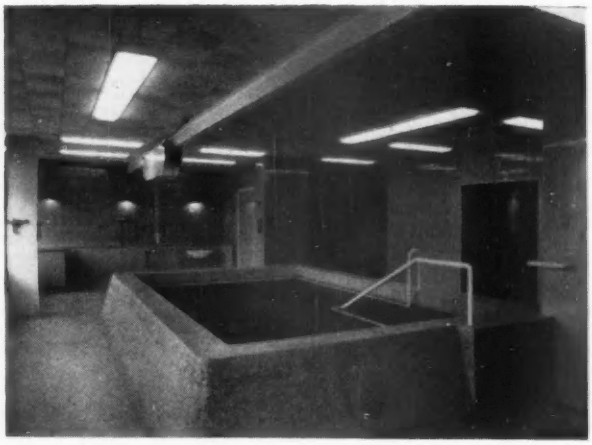
GROUND FLOOR PLAN

BASEMENT PLAN

Sub-contractors and Suppliers :

Structural steelwork, Dawnays, Ltd.; *reinforced concrete, floors, etc.*, Diespeker & Co., Ltd.; *heating, plumbing and engineering services*, Matthew Hall & Co., Ltd.; *steam boilers plant*, Ruston & Hornsby, Ltd.; *oil firing equipment*, Hamworthy Engineering, Ltd.; *boiler feed pumps*, G. & J. Weir, Ltd.; *boiler feed pump controls*, Ronald Trist & Co., Ltd.; *boiler instrumentation panel*, Electroflo Meters Co., Ltd.; *low pressure hot water calorifiers*, Hartley & Sugden, Ltd.; *hot water system copper calorifiers*, David Todd, Ltd.; *water treatment plant*, The Permutit Co., Ltd.; *plenum ventilation and hot water heating automatic controls*, Honeywell-Brown, Ltd.; *circulating pumps*, Frederick A. Pullen & Co.; *condenser pumping equipment*, A. C. Dunham & Co., Ltd.; *laundry and steriliser equipment*, Manlove, Alliott & Co., Ltd.; *centralised vacuum cleaning installation*, Lamson Engineering Co., Ltd.; *centralised oxygen and medical suction installation*, British Oxygen Co., Ltd.; *hydrotherapy pool purification equipment*, Becco Engineering & Chemical Co., Ltd.; *embedded ceiling and floor panels*, Benham & Sons, Ltd.; *ceiling heating panels*, Frenger Ceilings, Ltd.; *forced flow convectors*, Flexaire, Ltd.; *hospital radiators and wall 'ray-rads,'* Ideal Boilers & Radiators, Ltd.; *cold water storage tanks*, Braithwait Manufacturing Co. Ltd.; *boiler tank*, Mather & Platt, Ltd.; *plenum and extract fans*, Matthew & Yates, Ltd.; *'Aerofoil' extract units*, Woods of Colchester, Ltd.; *boiler house ventilation units*, Brooks Ventilation Units, Ltd.; *sheet metal duct work*, J. Gardiner & Co., Ltd.; *thermal insulation*, Versil, Ltd.; *steam isolating and reducing valves*, Dewrance & Co., Ltd.; *condense, heating, hot and cold water valves*, Hattersley, Ltd.; *steam trapping assemblies*, Spirax-Sarco, Ltd.; *fire hose reels*, Pyrene Co., Ltd.; *ward tea boilers*, Benham & Sons, Ltd.; *electrical services*, Troughton & Young, Ltd.; *main switchgear distribution, fuse boards, etc.*, General Electric Co., Ltd.; *internal telephone system*, Communication Systems, Ltd.; *patients' nurses calling system and radio installation*, Hadley Telephone & Sound Systems, Ltd.; *switches, switch socket outlets, etc.*, Britmac Electrical Manufacturing Co., Ltd.; *bedside units*, The Wandsworth Electrical Co., Ltd.; *fire alarm installation and staff call system*, The General Electric Co., Ltd.; *lighting fittings*, Troughton & Young (Lighting), Ltd., S.L.R. Electric, Ltd., Osler & Faraday, Ltd., Falk, Stadelmann & Co., Ltd., The Merchant Adventurers, Ltd., A.E.I. Lamp & Lighting, Ltd., Atlas Lighting, Ltd., Holophane, Ltd., Rowlands Electrical Accessories, Ltd.; *cold cathode lighting installations*, Ionlite, Ltd.; *lightning conductor installation*, W. J. Furse & Co., Ltd.; *cables*, W. T. Glover & Co., Ltd.; *nurses' bedroom call system*, Julius Sax & Co., Ltd.; *boiler house control panel*, Troughton & Young Manufacturing Co., Ltd.; *motor starters*, The Electrical Apparatus Co., Ltd.; *sewage ejector*, Tuke & Bell, Ltd.; *asphalt roofs, roads*, Val de Travers Asphalte, Ltd.; *asphalt tanking, etc.*, The Rock Asphalte Co., Ltd.; *waterproof render*, Sika, Ltd.; *stone facings*, The Bath & Portland Stone Firms, Ltd.; *metal windows*, The Crittall Manufacturing Co., Ltd.; *architectural metalwork and bronze screens*, G. Johnson Bros., Ltd.; *copper roofing*, Holloway Metal Roofs, Ltd.; *boiler flue*, Chimneys, Ltd.;

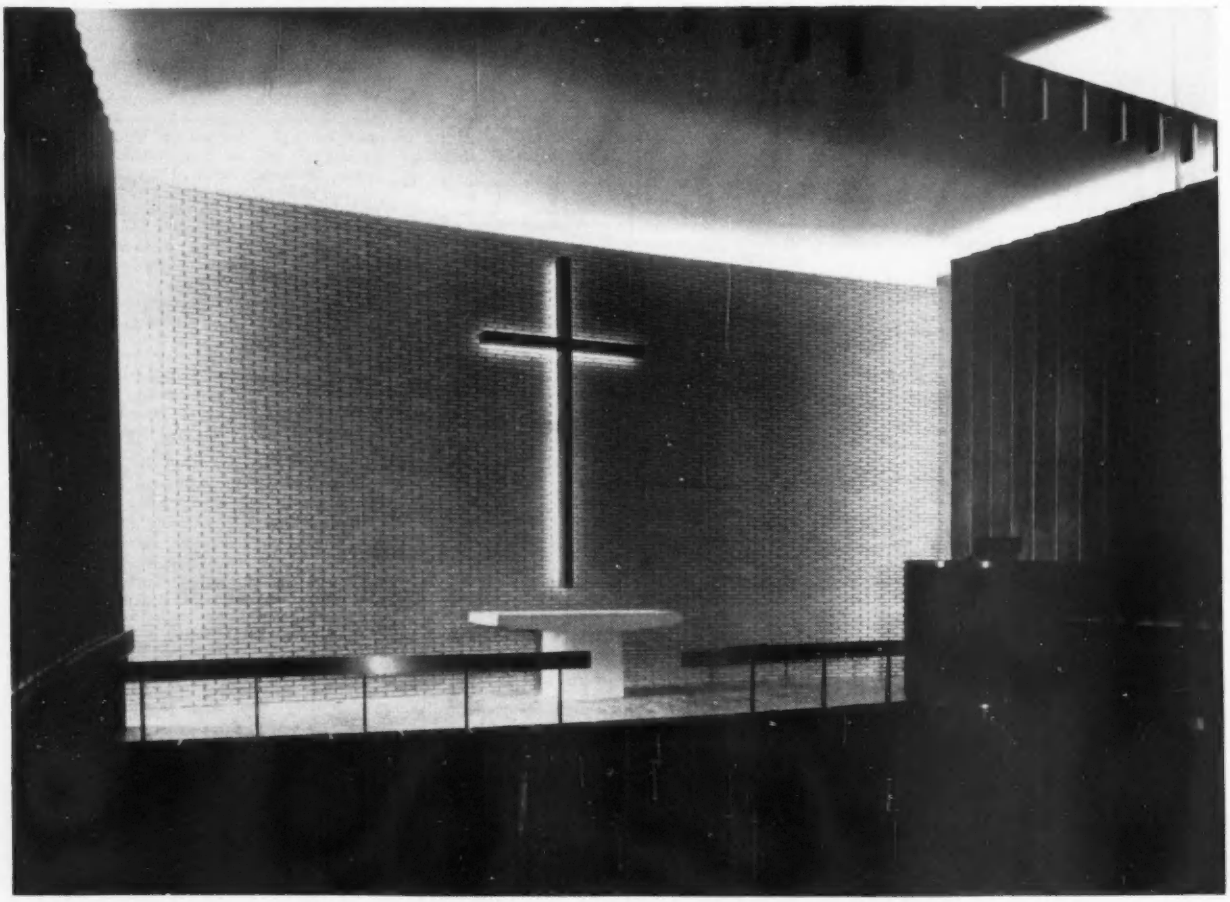
A section of the main staircase. The landing connects the bridge to the left with the central access corridor on each floor



The special hydro-treatment bath in the physiotherapy department on the ground floor

Wakefield Wing, Royal Masonic Hospital

The interior of the chapel which generally is two storeys high. The concealed lighting runs around all sides at the top of the vertical boarding and the wall. There is also cold cathode lighting fitted behind the waist-high rail which is finished in bronze and green leather, as is the pulpit. The vertical bronze ribs facing the bed-patients' balcony can be seen at the top right

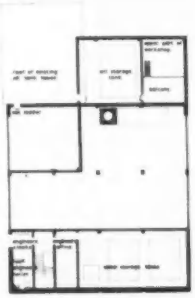


Wakefield Wing,

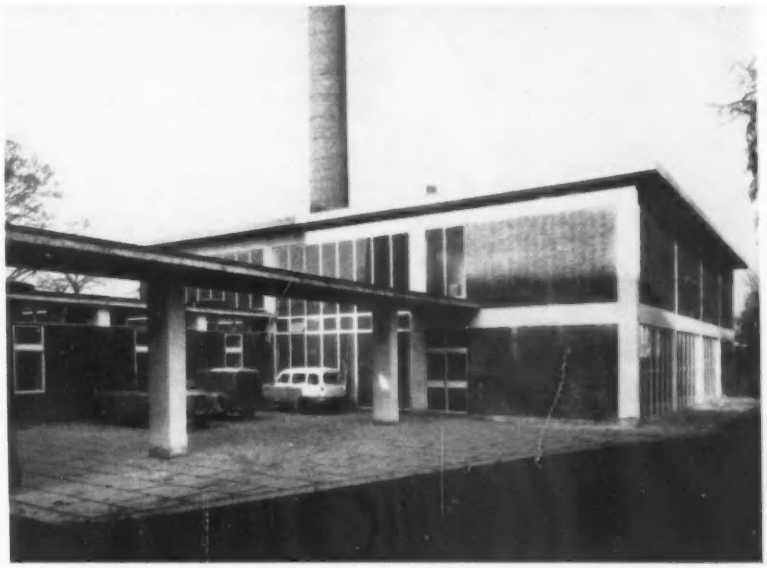
Royal Masonic Hospital

left : *A typical ward interior. Suspended curtains rather than screens leave the floor space clear*

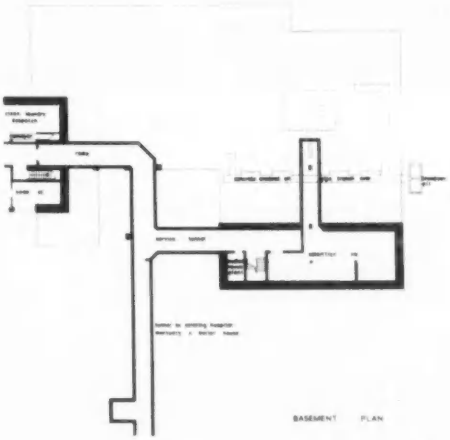
below : *The boiler house which has been built around existing fuel tanks and now supplies the whole hospital*



FIRST FLOOR PLAN

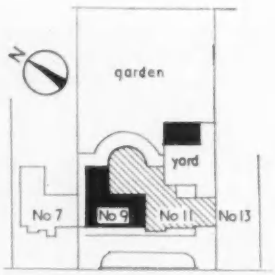


GROUND FLOOR PLAN
LAUNDRY & BOILER HOUSE



BASEMENT PLAN

terrazzo, Alpha Mosaic & Terrazzo Co., Ltd., Diespeker & Co., Ltd.; *wards, chapel, laboratory and general joinery*, James Longley & Co., Ltd.; *consultants' suites*, W. F. Harding Shopfitters, Ltd.; *nurses' training school joinery*, Fosters Woodworkers, Ltd.; *hydrotherapy partitions*, Compactom, Ltd.; *wood block flooring*, Acme Flooring & Paving Co., Ltd.; *lino and 'Accotile' flooring*, Armstrong Cork Co., Ltd.; *cubicle railing*, Roanoid, Ltd.; *splashbacks to nurses' bedrooms*, Marley Tile Co., Ltd.; *balustrade glasswork and mirrors*, Shepherd Tobias & Co., Ltd.; *wall tiling and sanitary fittings*, Wiggins-Sankey, Ltd.; *plastering*, Tomei & Sons, Ltd.; *folding partitions*, Esavian, Ltd.; *expanded metal lathing*, Campbell Denis & Co., Ltd.; *lifts*, Marryat & Scott, Ltd.; *laundry conveyor*, Sovex, Ltd.; *hydrotherapy hoist*, T. Hyde & Sons, Ltd.; *lettering*, The Lettering Centre; *well point dewatering*, Blaw Knox, Ltd.; *bricks*, Wiggins-Sankey, Ltd., R. Y. Ames, Ltd.; *slate*, Bow Slate & Enamel Co., Ltd.; *ironmongery*, James Gibbons, Ltd., Josiah Parkes & Sons, Ltd.; *flush doors*, Leaderflush, Ltd.; *duct covers*, Broads Manufacturing Co., Ltd.; *aluminium lighting sashes*, Alumin Building Components, Ltd.; *marble*, Anselm Odling & Sons, Ltd.; *x-ray viewers*, Kodak, Ltd.; *aumbry safe*, The Faith Craft-Works, Ltd.; *revolving blackboards*, Wilson & Garden, Ltd.; *carpets*, Druce & Co., Ltd.; *dark room sink*, David Allan (Dallan Products), Ltd.; *refrigeration*, The Pressed Steel Co., Ltd.; *tennis courts*, W. H. Gaze & Sons, Ltd.; *fire extinguishers*, Minimax, Ltd.; *glazing*, Faulkner, Greene & Co., Ltd.; *painting*, South London Decorators, Ltd.; *locks*, Union (supplied by Wiggins-Sankey, Ltd.); *sanitary fittings*, Shanks & Co., Ltd. (supplied by Wiggins-Sankey, Ltd.).



BLOCK PLAN

HEADQUARTERS for the Amalgamated Society of Woodworkers

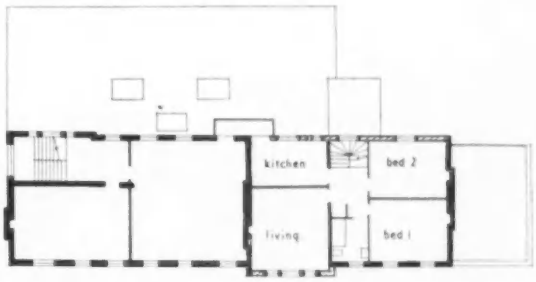
Macaulay-road, Clapham, London, SW4

Architect: D. E. HARRINGTON, FRIBA
Quantity Surveyors: TUCKER & HUNTLEY
General Contractors: TROLLOPE & COLLS, Ltd.
General Foreman: R. CHAPMAN

below: *Before reconstruction.* above: *The new Macaulay-road elevation*

THE original buildings on the site were, prior to the war, the headquarters of the Electrical Trades Union and consisted of two adjoining residential properties of a typical Victorian character, with no architectural merit. The premises were severely damaged by enemy action early in the war.

The requirements were to provide office accommodation for the executive, administrative and clerical functions of the Society within the framework of a part-existing semi-detached residential property on tortuously designed levels on four floors, plus a more or less cleared site adjoining.

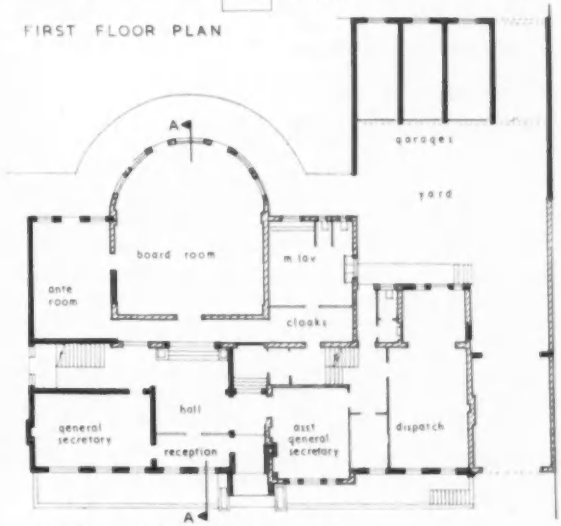


SECOND FLOOR PLAN

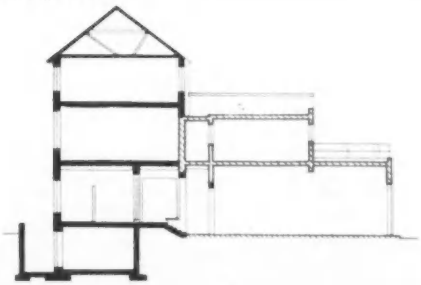
The entrance hall

FIRST FLOOR PLAN

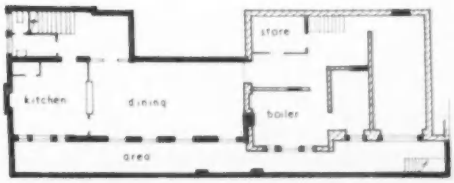
The General Secretary's room



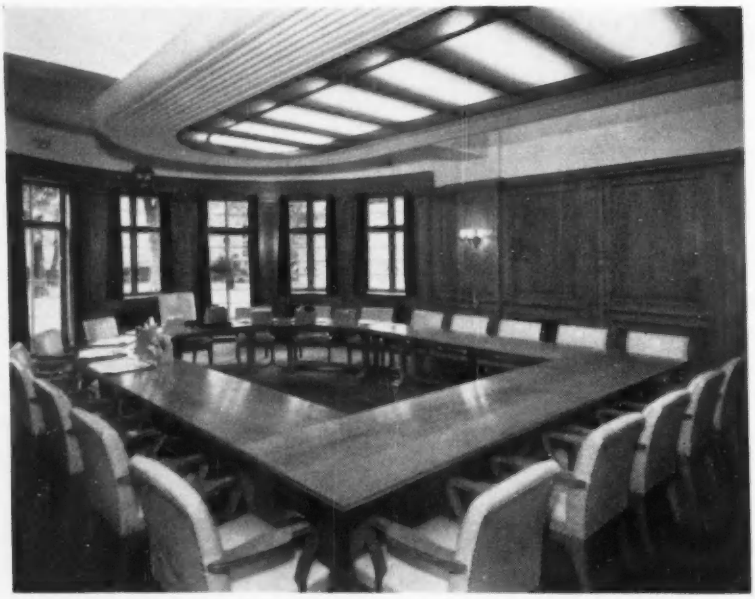
GROUND FLOOR PLAN



SECTION A-A



BASEMENT PLAN



left : *The original board room which has been repanelled and furnished in English oak*

below : *A detail of the boardroom doors which are glazed with decorative panels*

Headquarters for the Amalgamated Society of Woodworkers, Clapham

The scheme adopted provides a new fair-sized entrance hall placed on the axis of the board room with a new staircase serving the new wing of basement, ground and two upper floors, and with secondary access to the existing wing of the building. Generally the existing damaged wing has been rehabilitated and replanned to suit the clients' requirements and new cloak room and lavatory accommodation provided. The front however was stripped out and refaced to suit the design of the new wing.

The basement was extended and deepened to provide a suitable staff dining room and kitchen, and a caretaker's flat was arranged on the second floor of the existing building.

The new main staircase was constructed with *in situ* concrete with pale green terrazzo risers and with 2 in. Burma teak treads ; the balustrading is simple rod and bar wrought iron painted white and with polished wreathed handrail in sapele.

The old roof was stripped, adapted and extended and completely reslated with Westmorland slates. Facing brickwork to the front elevation was carried out in Matlock grey rustic facings. The original gable work was adapted and faced with stucco which was also used in the basement and ground floor up to the moulded string course.

Sub-contractors and Suppliers :

General heating and ventilation, Benham & Sons, Ltd. ; *electrical installation*, Phoenix Electrical ; *architectural ironwork*, Grundy Arnatt, Ltd. ; *facing bricks*, Hendersons, Ltd. ; *decorative glass and mirrors*, John M. Newton & Sons; *panelling*, Scott Morton, Ltd.; *hardwood flooring*, Hollis Brothers; *linoleum*, Co-Operative Wholesale Society & Catesbys, Ltd. ; *ironmongery*, Comyn Ching & Co. ; *stonework*, Trollope & Colls, Ltd. ; *marble work*, Whitehead & Co. ; *fireplaces*, Bratt Colbran ; *electric light fittings*, Osler & Faraday, Ltd. ; *paint and distemper, etc.*, Latham Brown & Co. ; *gardens*, Landscape, Ltd. ; *furniture*, Co-Operative Wholesale Society ; *terrazzo flooring*, Art Pavements ; '*Accotiles*,' Armstrong Cork Co. ; '*Sadia*' *water heaters*, Aidas Electric, Ltd. ; *decorations*, South London Decorators, Ltd. ; *plumbing and decorative leadwork*, Whittingtons ; *reinforced concrete*, Trollope & Colls, Ltd. ; *slating*, Roberts Adlard & Co., Ltd. ; *joinery* (except the panelled room), Trollope & Colls, Ltd.

OBITUARY

W. H. Ansell, CBE, PPRIBA

M. S. B. writes:—Excellent as was the obituary notice in *The Builder* of last week, it inevitably failed to mention all of Ansell's varied activities and achievements, for he was so versatile and his genial personality so attractive that his professional, artistic and social contacts were innumerable. For example, nobody seems to remember that soon after coming to London and qualifying as ARIBA in 1900, he became actively concerned in municipal politics in Holborn.

The late W. H. Ansell

As a result of his keen and long-standing interest in good craftsmanship (mentioned in your last number), he was invited to lecture on carpentry and building construction at Carpenters' Hall, and also to examine candidates in those subjects; and in 1949 was admitted to the livery of the Carpenters' Company. In 1940 he was elected a member of the Athenaeum, and soon afterwards became a member of its General Committee.

In 1941, as President of the RIBA, he took a leading part in founding the National Buildings Record, at a moment when the need for it was urgent; and he was vice-chairman of that organisation so recently as 1957, when his splendid health had begun to fail. In 1952 an exhibition of his drawings, paintings and etchings was held at the RIBA, covering 55 years' work, and one feature of that remarkable display was the fact that his artistic ability showed hardly any sign of flagging at 80 years of age. Indeed, his friends continued to receive annually from him, for some years after 1952, a Christmas card reproduced from some delightful sketch made during his latest summer visit to France. It is impossible to imagine that he ever made an enemy, in spite of his honesty and his forthright opinions; and he will continue to be remembered by a host of friends for his gay and happy disposition, as well as for his notable work in so many fields.

Eric Jarrett, ARIBA

WE REGRET TO RECORD the death on February 20, of Mr. Eric Jarrett, ARIBA, for many years a studio master of the Architectural Association School of Architecture. He was 70. He had a considerable knowledge of typography, and re-designed the front cover of *The Builder* in 1947. Cremation will be at Golders Green today (Friday, February 27) at 10.40 a.m.

H. B. writes:—With the going of Eric Jarrett there comes to an end one of those little worlds which each one of us builds. Jerry's world was largely centred on the AA and was peopled by his friends, students and professional associates attracted to him by his many interests and his friendliness.

Although since his retirement we had seen less of him in familiar surroundings, one always had the feeling that he was somewhere about the building. Jerry's contribution to the AA over many years of association with the School could hardly be sufficiently appreciated. He will be remembered in the Studio, the lecture room, the staff room and the members' rooms, at parties and with groups of members travelling at home and abroad. He will be remembered also for his photographic work, lately in colour, much of which will be found in the AA slide collection, and for his editorship of the AA *Journal*.

The news of his death will bring affectionate memories of him to many people all over the world.

F. G. Wilson, ARIBA

WE regret to record the death on February 22 of Mr. F. Gordon Wilson, New Zealand Government Architect.

Francis Gordon Wilson was born in 1900 at Perth, Western Australia, and was educated at Wellington and the School of Architecture, Auckland. In 1936 he became architect to the newly-formed housing division of the Ministry of Works, which began an extensive programme of building houses for rental by the State. He became Assistant Government Architect in 1948, and Government Architect in 1952. In 1957 he came to London to consult with Messrs. Robert Matthew and Johnson-Marshall on the sketch plans for the new New Zealand House building in Haymarket.

KNIGHTSBRIDGE REDEVELOPMENT SCHEME

Chelsea Council's Recommendations

CHELSEA Metropolitan Borough Council's town planning and amenities committee has made a number of recommendations, which came before the Council on February 25, concerning the London County Council's revised scheme for redevelopment at Knightsbridge, at the junction with Sloane-street and Brompton-road. The most novel feature of the revised scheme, the committee states, is the proposed 24-storey residential building, rising to a maximum height of 320 ft.

The committee recommend that the London County Council be informed that the Borough Council sees no objection, in principle, to the proposals for the comprehensive development of the Knightsbridge, Sloane-street and Brompton-road intersection, subject to the following reservations:—

(a) The Borough Council is not entirely satisfied that the traffic handling capacity of the circulatory system will be sufficient, having regard to the constantly increasing volume of traffic;

(b) the Borough Council is not satisfied with the proposed method of joining Basil-street to Pavilion-road and is of opinion that additional turning space should be provided even if this entails enlarging the area of comprehensive development.

(c) the pedestrian arcades linking Basil-street and Pavilion-road with Sloane-street and Brompton-road should be made permanent thoroughfares;

(d) ramped accesses to all subways should be provided and the subway area, if intercommunicating, should provide additional shopping space rather than be merely tunnels;

(e) all street lighting should be of a standard pattern and under the control of one of the three local authorities concerned;

(f) the scheme should be re-examined to endeavour to provide the tower block with east-west aspects rather than north-south aspects, as now proposed;

(g) details of the elevational treatment of the various buildings shall be submitted for the Borough Council's observations;

(h) all advertising on high buildings should be approved as part of the elevational treatment and should not be added to thereafter;

(i) the greatest possible provision should be made for landscaping;

(j) the Borough Council should be consulted on any proposed sculpture or statuary prior to any work being commissioned.

BOOK

THE CARVER'S COMPANION. A Guide to Carving in Wood and Stone. By Peter Morton. (London: Adam and Charles Black.) Price 30s. net.

WE are constantly being reminded that the machine is triumphant and the crafts dead or dying. Unhappily this is true, but one craft that is 'an unconscionable time a'dying' is that of the carver in wood and stone. Since the war, indeed, there has been a considerable revival in it owing to the need to restore a great number of war-damaged buildings of traditional design. That the craft will last a long time yet is reasonably certain from the continuing demand for a great variety of decorative work; while for the amateur it has a perennial attraction as a hobby for the leisure hours.

The need for a new book on the subject is well met by the one under notice, written by one who is himself a distinguished carver. Though full of technical information on carving in wood and stone it is no mere text book but is pleasantly enlivened by the reflections arising from a lifetime's study and practice of the carver's craft. There are fifty-nine beautifully reproduced photographic illustrations of fine craftsmanship in furniture and decoration of various kinds, new as well as old, the former including some architectural work from *The Builder*, together with nine line drawings of a technical nature, including diagrams and particulars of the carvers' tools. The wealth of beautiful work illustrated is a delight to the eye.

This is a book that should appeal not only to the amateur and the student but to all who have a love of fine decorative craftsmanships.

G. J. HOWLING.

**** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

News of the Week

Sutton and Cheam Civic Centre

DETAILS of a new £1¼m. Civic Centre for Sutton and Cheam Council have been announced. The centre will have a 104 ft. high clock tower and there will be an assembly hall to seat 550 people. The architect is Mr. Romilly B. Craze, FRIBA, who informed *The Builder* that the Council has given permission for the preparation of working drawings as soon as planning permission is obtained.

The layout of the centre is planned to allow for future extensions to enable the floor space to be doubled. Offices will have movable walls and the entrance hall, which will face on to Cheam-road, will give direct access to all departments by staircases and lifts. Layout of the buildings has been governed, to a certain extent, by the levels of the site, which has a fall of 22 ft. The buildings have been sited and grouped in an attractive setting with a formal garden.

St. Catherine's College, Oxford

PROFESSOR ARNE JACOBSEN, the Danish architect, met the committee responsible for planning St. Catherine's College, Oxford, which is to be built in Holywell Great Meadow, on February 19. It was a formal meeting to discuss whether he would like to design the college in association with a British architect, and no announcement is likely to be made for at least another month.

Problems of Factory Building

THE Midlands Regional Board for Industry is to hold a conference on March 5 at 11.15 a.m. at the RIBA, 66, Portland-place, W1, to announce a new series of DSIR publications dealing with the problems of factory building. The chief speaker will be Sir Harry Melville, Secretary of the Department of Scientific and Industrial Research.

In 1957, £267m. was spent on building in the manufacturing industries, but no organisation was concerned with an overall study of industrial type buildings, as was the case with dwellings, schools and hospitals. The Midland Regional Board for Industry approached the Building Research Station some two years ago with questions concerning the operating costs of multi-storey factory buildings. As a result, a co-operative study of the problems of building factories was arranged. The Midland Regional Board for Industry collected subscriptions from individual firms to help pay for the costs of the study, which was to cover all aspects and problems of factory building and services. The results of the study will be published in a series to be called 'Factory Building Studies' which, it is hoped, will be of value to firms, architects and designers over a very wide range of industries.

Twelve Nations in Nuclear Project

AN AGREEMENT was announced in Paris on February 12 by the Organisation for European Economic Co-operation for the development of Britain's most advanced ideas for a nuclear power station as a 12-nation project, stated *The Times*. The principal partners will be the United Kingdom and Euratom—a six-nation organisation—and the other participating countries will be Austria, Denmark, Norway, Sweden, and Switzerland. The announcement was of approval by the steering committee of the European Nuclear Energy Agency, representing the 17 OEEC countries. Approval by the councils of Euratom and of OEEC is expected to be a formality.

An experimental reactor based on Britain's ideas for the so-called 'high temperature reactor' is to be built as a joint undertaking at the Winfrith Heath site of the United Kingdom Atomic Energy Authority.

The project—to be known as 'Dragon'—is expected to extend over five years, and to cost £13,600,000. Of this, £10m. will be treated as joint expenditure—towards which Britain and Euratom will contribute £4,340,000 each—and the balance of £3,600,000 will be met by Britain, which will retain the reactor and other equipment. The building up of a joint team is to begin shortly. It should be ready to begin work within two to three months.

Temperatures of up to 1,300deg.C. are expected to be reached in the interior of the fuel elements—which will be of ceramic type—and it is hoped to extract heat from the reactor at a temperature of 750deg.C.

Abbey Theatre, Dublin

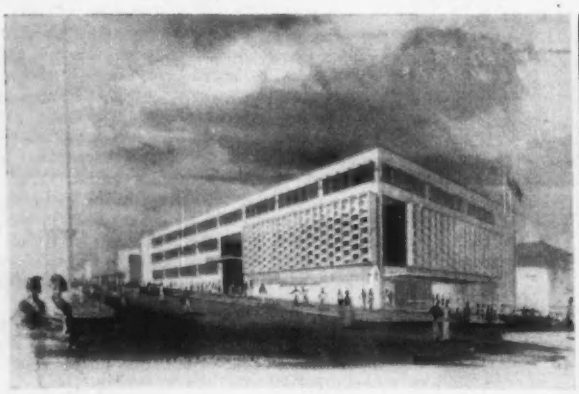
THE design for the new Abbey Theatre, Dublin, prepared by Mr. Michael Scott, FRIAI, in collaboration with M. Pierre Sonrel, of Paris, has been approved by the Eire Government, but no estimate of the cost has yet been given and it is not known how soon building work will begin. The project was illustrated in *The Builder* of November 21 last.

English-Speaking Union Travel Grants

THE English-Speaking Union announces the offer of four Travel Grants to the United States, application for which is open to men and women of British nationality, aged between 30 and 50, who are experienced and practising in a branch of the arts such as painting, sculpture, music, architecture or design. Museum curators and art historians are also eligible.

Each grant will cover the cost of travel to and from the United States and travel within that country. There will also be a subsistence allowance for each day spent there, up to a maximum of 56 days, the recommended length of the visit. The grant may be taken up any time from September-October, 1959, but must be completed by July 1, 1960.

Closing date for applications is May 2. Further particulars and application forms are obtainable from:—The Secretary, The English-Speaking Union, 37, Charles-street, Berkeley-square, W1.



NEW WEST AFRICAN PREMISES FOR BARCLAYS BANK DCO.—This Bank is now building three new chief offices in the capitals of Nigeria, Ghana and Sierra Leone. Those illustrated in the two perspectives above are (left) new chief office at Westmoreland-street/Charlotte-street, Freetown, which is scheduled for completion in April, 1960. The architects are Messrs. Nickson and Borys, of London and Lagos, and the contractors Taylor, Woodrow (Sierra Leone) Ltd. The exterior facing is of terrazzo tiles. Owing to the slope, the banking hall is partly at ground and partly at first-floor level, with room for car parking at ground level. Right: New head office at High-street/Mission-street, Accra, due for completion next July. The architects are Messrs. Harrison, Barnes and Hubbard, of London and Accra, and the contractors are N. Micheletti & Son, of Accra. The sunbreakers are of aluminium

THE HIGHEST ENTRY, numbering 1,523, that the RIBA has on record for an architectural competition in Britain has been received in the competition for the design of small houses, which is jointly sponsored by the RIBA and *Ideal Home*. Seen at work on the competition are the assessors, Messrs. Eric Ambrose, FRIBA (left); Peter Dunham, FRIBA (centre) and Clifford Culpin, OBE, FRIBA

Planning Tour of Austria

THE Town and Counry Planning Association have arranged a Spring study-holiday tour of Austria, to take place from April 29 to May 19, the proposed itinerary includes Salzburg, Linz (now expanding to a great city), the old twin towns of Krems and Stein on the Danube, Vienna and the region eastward on the frontier of Middle Europe, Kapfenberg, Eisenerz and the iron mountain of Styria, Zell-am-See, the Grossglockner (with its great hydro-electric works, Heilgenblut, Franz-Josefs-Haus) and Innsbruck. The cost is approximately £75-£85. Details from: The Tour Secretary at 28, King-street, Covent Garden, WC2.

Lecture by Professor H. Rüsch

PROFESSOR H. RÜSCH, of the Institution of Technology, Munich, is visiting this country in March, 1959, and on the invitation of the Prestressed Concrete Development Group has agreed to give a lecture on 'How can the Advantages of Prestressed Concrete Best be Utilised?' The lecture will take place at 6 p.m. on Wednesday, March 4, at the Royal Commonwealth Society (Craven-street entrance), London, WC2.

RICS Secretary's Portrait

SIR ALEXANDER KILLICK, CBE, is to retire on March 31, next, after nearly 27 years as Secretary of The Royal Institution of Chartered Surveyors. The Council of the Institution have commissioned Mr. Norman Hepple, ARA, RP, to paint a portrait of Sir Alexander to commemorate his outstanding services as Secretary.

The portrait will be unveiled by the President of the Institution at the commencement of the Ordinary General Meeting on Monday, March 2, next, beginning at 5.45 p.m.

Appointment

THE Imperial War Graves Commission have approved the appointment of Mr. H. D. Morgan, MSc(Eng), MICE, as their Honorary Consulting Engineer in succession to the late Sir William Halcrow who held that position from 1944 until his death on October 31, last.

Mr. Morgan is senior partner of the firm of Sir William Halcrow and Partners.

Sale of Hampstead Garden Suburb

THE CHURCH COMMISSIONERS according to a report in *The Times*, have sold the freehold of the Hampstead Garden Suburb and intend to invest the proceeds in commercial property on short leases. They will thus be able to increase rents in future, which they could not do in the case of the garden suburb, which was held on a 999-year lease and was thus a fixed interest security. The price paid was over £300,000.

Open Week at Brixton School

BRIXTON SCHOOL OF BUILDING will be open to visitors from 10 a.m. to 4 p.m. from March 2 until March 6. Work will continue normally in lecture rooms, studios, laboratories and workshops, and examples of students' work will be on display at the school's annexe at Barrington-road and Ferndale-road.

It is expected that secondary schools will be sending parties of pupils and that members of the building industry and associated professions will take the opportunity of seeing something of current trends in building education.

PROFESSIONAL ANNOUNCEMENT

MR. A. T. MARSH, FRICS retired as Chief Quantity Surveyor with the Bournemouth Corporation on February 20 last. He had held this appointment since 1933 except for four years as Surveyor of Works, Royal Engineers, in the Gloucestershire area of the Southern Command during the war.

A HUNDRED YEARS AGO

From The Builder *of February 26, 1859*

BUILDERS' FOREMEN.—If we were to judge from the number of letters we receive from time to time, complaining of the inefficiency of builders' foremen, we should conclude that masters are not sufficiently careful in their selections. One of our last correspondents on the subject says:—Foremen are generally chosen by the masters and by the foremen, the men, unhappily, have no voice in the matter. The first, who, in nine cases out of ten, are not practical men, and hence are almost totally unable to judge who are the most fit generally choose the man who has been longest employed, the best to keep time, and the most canting; the second generally choose some kinsman, and often a man whose pockets are better filled with coin than his brain is with intelligence.

What is the consequence of this state of things? Why, that there are more inefficient than efficient foremen; good workmen are discouraged; and English workmen are losing their proverbial character for good, sound workmanship and are becoming Americanised. T.J.S.

COMING EVENTS

MONDAY, MARCH 2

SOCIETY OF ENGINEERS.—'Some Experiences of River Control in Africa.' By Mr. R. G. T. Lane. Geological Society, Burlington-hse., W. 5.30 p.m.

RICS.—'Implementing The Franks Report.' By Sir Sydney Littlewood. 12 Great George-st., SW1. 5.45 p.m. Also the unveiling of a portrait of Sir Alexander Killick, Secretary of the Institution.

ROYAL SOCIETY OF ARTS.—Three Cantor Lectures on 'The Classical Country House in 18th Century England': (1) 'Patronage and Performance, 1710-1740.' By Sir John Summerson, CBE, FBA. John Adam-st., Adelphi, WC2. 6 p.m.

TUESDAY, MARCH 3

INSTITUTION OF CIVIL ENGINEERS.—'Development in Overhead Electrification of Railways as it Affects the Civil Engineer.' By Mr. R. E. Sadler. Great George-st., SW1. 5.30 p.m.

HOUSING CENTRE TRUST.—Joint annual meeting with Diploma students of the Department of Town Planning, University College, London. 'A Redevelopment Plan for Fulham.' By Sir William Holford, FRIBA. 13 Suffolk-st., SW1. 6 p.m.

RICS.—Annual dinner. Grosvenor House, Park-la., W1. 7.30 p.m.

WEDNESDAY, MARCH 4

ROYAL SOCIETY OF ARTS.—'The Future of Nash Terraces.' By Mr. R. H. Davies, FRIBA. John Adam-st., Adelphi, WC2. 2.30 p.m.

ARCHITECTURAL ASSOCIATION.—Symposium on Le Corbusier. Speakers include: Reyner Banham, Peter de Francia, R. Furneaux Jordan, John Killick, Peter Smithson and an AA student. TUC Hall, Great Russell-st., WC1. 6.30 p.m.

TOWN PLANNING INSTITUTE.—Annual dinner. Savoy Hotel, WC2. 7.30 p.m.

HORNERS' AWARD WINNER

Telephone Kiosk in Plastics

THE HORNERS AWARD of 1958 for a striking design wholly or mainly in plastics materials has been won by Mr. R. E. Facius, of Seaton-street, Chelsea, SW10, a student at the Central School of Arts and Crafts, for his design of a public telephone call-box, it is announced by the British Plastics Federation. Mr. Facius will receive his prize, 50 guineas, at the annual Plastics Dinner and address of the Worshipful Company of Horners. Closing date for entries for the 1959 competition is May 29 next (regulations available from the Federation at 47/48 Piccadilly, London, W1).

Mr. R. E. Facius with a model of his design.

PLANNING POLICY IN KENT

Emphasis on Urban Renewal

A RECOMMENDATION which could have far-reaching effects on the future of many towns came recently from the Kent Planning Committee. It suggests that the County Council, as local planning authority, should encourage local authorities and private developers to re-develop obsolescent or otherwise unsatisfactory built-up urban areas in the County, instead of using up more of the rapidly dwindling undeveloped land outside the towns.

The committee has been examining its policy for future operations in the light of the competing claims of farmers, manufacturers and house builders for the use of land in Kent.

A report from the County Planning Officer, Mr. James W. R. Adams, to the committee states:—'Demands on agricultural land in Kent for non-agricultural development have been so heavy and continuous between the two wars and since the last war, that very little land of indifferent agricultural value remains for future development. So much of this indifferent land is now used or is needed for open space, recreation grounds, school playing fields or other open land uses that it can be stated as a generalisation that the supply of virgin sites for building development in Kent has or shortly will come to an end in very nearly every part of the administrative County, in the light of agricultural policy.

'This, however, does not mean that there is no scope for extensive future building development. On the contrary, there is enormous scope in the form of the re-development of a number of different kinds of obsolescent areas.

'Some of these areas are only obsolescent in the sense that houses and gardens are too large, others are obsolescent in the more literal sense that houses are not capable of being economically modernised and rendered wholly satisfactory homes to meet the requirements of the contemporary family. Many centres of towns are dull and depressing, and could be greatly improved as places where the inhabitants can meet each other and obtain relaxation as well as shop in comfort and conveniently.

Considering the foregoing factors together, one is encouraged to believe that the denial of any further virgin sites for building development, except in very special circumstances, although an apparently drastic and inconvenient action, might well lead to such an improvement in the convenience, character and visual design aspects of the towns in Kent, that in the long run those responsible for the policy would be praised for their foresight.'

After discussing that report the Planning Committee has reached certain conclusions which the County Council was asked to consider at its meeting on February 25, when the chairman of the committee, Sir William Wigham Richardson, invited the County Council to adhere to the existing basic planning policy of regarding agriculture as the major single industry in Kent, and to continue to safeguard good agricultural land. This, of course, does not imply that the committee underestimates the importance to Kent of other industries. It is in fact at present doing what it can to attract new industries to certain parts of the County where good sites are available.

The Planning Committee's second recommendation to the County Council will be to give every possible encouragement to the re-development of obsolescent or otherwise unsatisfactory built-up areas in preference to the use of further undeveloped land for building purposes. As a corollary to that, the committee is recommending the Council to say that it will consider sympathetically proposals which might be received for the erection or conversion of buildings to provide flats or maisonnettes in town and country 'where such development appears to be expedient for economic reasons and particularly when it facilitates the re-development of obsolescent urban areas.'

At a recent meeting the committee received a report on the Kent Development Plan both parts of which have now been approved by the Minister of Housing and Local Government. The committee is turning its attention to completing the remaining town maps and the quinquennial or earlier review of some at least of the town maps already in existence. It has arranged for the production of a 'popular edition' of the Development Plan and for a planning exhibition dealing with past efforts and future hopes to be held at the County Hall, Maidstone, next May.

ECONOMIES IN DAM-RAISING

Advantages of Stressed Cable Method

WHEN work on the Avon Dam was begun on Dartmoor in 1954, provision was made in a manner new to this country, for raising the dam in the future to increase the storage capacity by 150 m. gallons—an increase of half.

By certain minor modifications to the new dam, the engineers have made it possible to adopt for future raising the method of stressed cables introduced by the French engineer, M. Coyne, for raising existing dams at Cheurfras in Algeria, and Steenbras in South Africa. They estimate that a sum in the region of £75,000—at present contract rates—will be saved when the level is raised.

These facts were disclosed in a paper, 'The design and construction of the Avon Dam,' which was given at the Institution of Civil Engineers, in London, on February 24, by Mr. Linton Bogle, partner of Lemon & Blizard; Mr. Robert Ross, resident engineer; and Mr. Thomas McMillan, of Tarmac Civil Engineering, Ltd.

MR. BOGLE said: 'The cost of the necessary modifications incorporated in the dam during construction to provide for future raising by 13 ft. of the water level was also cheapened by adopting the method of pre-stressed cables. The cost was only £6,370—as against £15,000 required for the conventional method of an additional width of foundation to carry a thickened wall on the downstream side.'

Timber Course

Dr. H. E. Desch, FRICS, is to repeat a one-week timber course at Oxford, from April 6 to 11. The fee for the course is 18 gns. Timetables and further particulars are obtainable from Dr. Desch at 11 Haymarket, London, SW1.

CARLISLE BUILDING PROJECTS

New Civic Centre Planned

From a Correspondent

AS a new picture of the Carlisle of the future begins to emerge on the drawing boards this Border City will become a centre of building activity with new projects already scheduled by industrial and nationalised concerns.

The face of historic Carlisle will be changed by the new Civic Centre, and it is now announced that the Minister of Housing and Local Government sees no reason to object to the Council's proposed timetable. Plans have already been completed for the new Civic Centre, which will accommodate all the corporation offices which are at present scattered about the city. The second stage of the scheme is at present timed to start in the spring of 1962. The architects are Messrs. C. B. Pearson & Son, 18 Dalton-square, Lancaster. In due course public baths and new educational buildings will be erected alongside the centre.

In major education building projects an estimated £1m spread over the next five years is to be spent in Carlisle. Plans are already ready for submission to the Ministry. In addition a programme of 348 new council houses is planned in 1959.

But perhaps the biggest constructional project in view is that of British Railways, who are to start work soon on a new marshalling yard outside Carlisle which will cost at least £4m. Construction of the yard, the Northern British Railways Division's biggest single contribution to the freight traffic plan, is linked with proposals to close seven yards.

LOANS TO LOCAL AUTHORITIES

Grants to December Quarter

FOLLOWING is a list of loans sanctioned by MoHLG to local authorities in England and Wales during the quarter ended December 31, 1958.

	£	£
Housing (Land, dwellings, roads, sewers, etc.)	50,034,285	
Advances and Grants under Hsg. and S.D.A. Acts	17,684,010	67,718,295
Town and Country Planning	1,298,102	1,298,102
Sewerage and Sewage Disposal	7,752,905	
Water Supplies ..	4,743,739	12,496,644
Burial grounds and cemeteries	52,800	
Coast protection ..	206,890	
Crematoria	85,352	
General depots.. ..	307,957	
General markets ..	300,216	
Land for the benefit, etc., of the district ..	381,128	
Physical training and recreation	208,398	
Private street works ..	344,339	
Privy conversion ..	26,303	
Public baths and washhouses	239,166	
Public conveniences ..	105,970	
Public libraries and museums	165,226	
Public walks and pleasure grounds ..	215,235	
Refuse collection and disposal	134,546	
Street cleansing ..	4,583	
Town halls and offices	988,236	
Miscellaneous	386,549	4,152,894
		85,665,935

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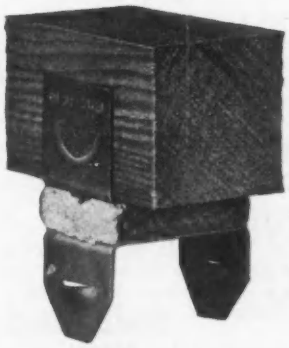

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Building Societies in the Contemporary Scene

SIR HAROLD BELLMAN'S ADDRESS TO THE RICS

QUESTIONS of building society policy on finance and economics, the rate of house building, the redevelopment of decaying areas and current trends in design and construction were discussed by SIR HAROLD BELLMAN, MBE, DL, JP, in a paper entitled 'Building Societies in the Contemporary Scene,' which he gave at a meeting of the RICS held at 12 Great George-street, Westminster, on Monday, January 5. We take the following extracts from his address:—

In recent years (said Sir Harold) we have maintained an exceptional rate of house building, which has done much to relieve the actual numerical shortage apparent immediately after the war. There is little doubt, however, that house building at the rate of 300,000 per annum, given the prevailing circumstances, has imposed some strain upon the country's economic organisation. Unless either commercial and industrial building falls sharply (which would be unfortunate in its broader implications for the country's economic efficiency if it occurred), or the productivity of the building industry increases appreciably, it would be better if a figure of something under 300,000 could be the normal order of events.

There is this further aspect of the problem: that if too large a proportion of our financial resources and manpower is devoted to new house building, the repair and reconstruction of our older houses may suffer in the process. This question of the older type of property, and especially in the larger industrial centres, is a critical one. There are thousands of houses which fall something short of slum standards and fall equally short of a standard which would enable them to qualify for a normal building society or local authority mortgage in their present condition. One of our major political parties has propounded a remedy for this problem, but this, I believe, makes a stronger appeal on political grounds than on purely economic considerations.

A 'Housing Rescue' Operation

It is because of the existence of this enormous group of houses throughout the country that a warm welcome should be accorded the Government's recently published White Paper which embodies proposals whereby the Government will advance funds, on defined terms and conditions, to building societies to advance on properties of the kind under consideration. This should form the spearhead of a real 'housing rescue' operation. If private owners who have lost interest in these properties (mainly, no doubt, because of the lack of economic incentive) would sell them to their sitting tenants at fair prices, those tenants would often be able to obtain mortgages and improvement grants which would enable the properties to be modernised and become an asset to the community, instead of a liability.

Pursuing this line of thought further, as and when the wholesale redevelopment of decayed and decaying inner areas of cities is undertaken, the question of finance will be of paramount importance. In the past, much of this work has been the responsibility of the local authority. There seems no reason, however, why a scheme should not be evolved whereby private enterprise could play a part, erecting houses for sale to the owner-occupier with building society assistance. Obviously such a scheme could not be produced overnight, but it might well be that as new house building tends to diminish, with the consequent decline in the demand for building society advances, the societies would be better able to provide funds to assist such redevelopment.

The Professional Valuer's Usefulness

In any discussion of building society mortgage activities, the importance of the professional valuer is implicit, if not explicit. We all tend to imagine, whether rightly or wrongly, that there was once a golden age in which everything was very simple and uncomplicated. To-day the conduct of mortgage business, if it is to be carried on properly, is far from simple or uncomplicated. In such circumstances, the professional surveyor assumes a position of great importance.

From time to time proposals are made in public discussions which, if adopted, would lead to some considerable changes in present-day practice. For instance, it is sometimes suggested that the valuer's report, now regarded as confidential to the society and to be used for the society's purpose only, should be made available to the mortgage applicant. On the face of it, this may have some attractions, but there are considerable difficulties in practice. A full structural survey is not normally carried out on behalf of the society, nor do the fees agreed between the building societies' central organisation and professional institutions provide for reports in such detail. Furthermore, the legal position of the parties would require to be clarified, which would perhaps not be at all easy. Nevertheless, I believe that many societies, if they receive a report in terms which indicate that a purchase would be very much to the disadvantage of the person concerned, contrive to convey at least the tone, if not the detail, of the report and thus give the intending applicant some warning. I doubt if at the moment matters can proceed very much beyond this stage without a radical revision of the building society-surveyor relationship. At the most we can re-emphasise the importance of borrowers having an independent survey by a qualified valuer in as many cases as possible.

Among matters for what might be termed Board Room consideration are the difficulties which arise in the valuation of new properties which are regarded as quintessentially expressions of the age. I hope this unbiassed description will be sufficient to identify the type of construction in mind. There are perhaps essentially two problems. What are the inherent merits of the new types of construction, both as machines for living and from a structural standpoint? Related to this is the wider æsthetic problem:—will they be accepted by general public taste, or are they essentially a freakish product of a frenzied moment? From the constructional standpoint, it is much easier, I suppose, to provide working answers, and here the profession can usually proffer quite firm guidance. The second question involves considerations which are not exclusively within the surveyor's province but which impinge on general policy. What we both have to accept, however, is that the final arbiters are the general or lay public who, since they control the purse-strings, control ultimately the forces of supply and demand. All the same, a very real problem remains both for valuers and for building societies.

Looking at the problem broadly, we both have to decide whether the current trend is purely transient or is indeed inaugurating a new era which will influence the greater part of subsequent construction. In this connection one cannot fail to notice the enthusiasm of the younger generation for the new forms. It may be that in 100 years from now the country will consist of large numbers of ultra-modern houses interspersed with a few preserved specimens of say, Georgian domestic architecture. But this is not a prophecy—it is merely an invitation to consider the development as a possibility. In the meanwhile, however, we have to evolve a working day-to-day policy on this matter and some further thought on both sides will no doubt be required.

Maisonettes and Flats

Again, since my address is concerned with the contemporary scene, it is impossible to overlook the increasing popularity of maisonettes and flats which are offered for sale. It would appear that these satisfy a need which is not readily met otherwise. In many cases, building society advances are made on this type of property, but the building societies on the whole tend to adopt a cautious attitude to mortgage proposals of this character and their professional surveyors correspondingly adopt a conservative basis of valuation. I think this must necessarily be the case while the idea is still in a more or less experimental stage, and also while the demand for advances on the building societies' normal type of security, with its proved marketability, is in excess of supply. There are some indications, however, that flats and maisonettes will become an increasing feature of the housing scene and this is another of the directions in which building societies will no doubt be called upon to adapt themselves, within whatever limits seem prudent, to the changing scene.

A further problem concerns the question of general amenities and the part which the surveyor may have to play in this sphere. In the main, the matter is most effectively in the hands of the town planning authorities, but where a builder approaches a building society at an early stage for mortgage facilities and where the society has professional surveyors on

its staff, there is often scope here for the surveyor to advise the Board of the building society in terms which will materially benefit local amenities, and personally I should like to see fuller use made of this opportunity. The education of both the authorities and public opinion in this matter is a slow and frustrating business, and short of dictatorship (which we should all abhor) it appears we must be content with plodding piecemeal development.

DESIGN OF HOUSES

Building Societies' View

IN the course of a statement on this subject MR. ALEXANDER MEIKLE, CA (Chairman of the Council, the Building Societies Association), writes: Building societies have recently been subject to some criticism from architects and builders on the ground that they are old-fashioned in outlook and over-cautious in lending policy. According to the critics this may have the effect of discouraging new developments in house design.

In general, the duty of the building society is to assist members of the public to buy the houses of their choice; it does not normally include that of influencing them in their choice save where the property is unsound in construction and for that reason, or any other similar reason, one which the borrower should not buy. In short, the lending policy of the building society must proceed at the same pace as public taste and public demand. What are intended by architects to be improvements in design do not necessarily succeed in appealing to the buying public.

It is just this knowledge that new design is partly experimental that makes the building societies cautious. It cannot be emphasised too strongly that the first duty of building societies is to afford proper security for the money entrusted to them by over 4,000,000 investors and that for this (and other) reasons they are always more likely to march with the public taste in home design than to attempt to lead it.

SMOKE NUISANCE

'Domestic Fires Chief Culprits'

BRITISH HOUSEHOLDERS are not well informed about fuel efficiency and are prepared to spend little towards making their homes comfortably warm, a meeting of the Royal Society of Health was told in London on February 12.

DR. A. PARKER, formerly Director of Fuel Research, Department of Scientific and Industrial Research, said that, at the same time, these householders were prepared to spend considerable amounts on luxury items that gave less in real value. He added that during recent years there had been a decrease in the amount of solid fuel used in Britain for domestic heating. On the other hand there had been an increase in the quantities of oil, electricity and gas consumed because they caused less dirt, and were more convenient and labour saving.

Dr. Parker claimed that though domestic fires (including five million tons of miners' coal) used only one-sixth of the total coal consumption of the country, they were responsible for one half of the smoke emitted into the air.

BRITISH STANDARDS

Fire Tests on Building Materials and Structures (BS 476 Part 3 : 1958 : External Fire Exposure Roof Tests)

INTERNAL fire, it has long been realised, is not the only fire hazard to which a building is vulnerable. Parts of its structure (particularly the roof materials) can be affected by fire of sufficient intensity in adjacent building, even if a road separates the two premises.

Hence the value of the publication (price 4s.) with its test for assessing the degree of hazard of various roof constructions when exposed to external fire conditions. The test is developed around an apparatus in which typical specimens of the external cladding and under-structure of the roof are exposed to heat radiation. The specimens are first subjected to a modified short test, to avoid waste of time on unsuitable materials; specimens which pass this test are then subjected to the full test for both penetration and spread of flame.

On the basis of their test results, specimens are allocated designatory letters, e.g. specimens which have not been penetrated within one hour and which have permitted no spread of flame, would be designated 'AA.' The designatory letters can be used by manufacturers for marking their materials.

Paper-hanging Pastes and Powders (BS 3046 : 1958)

THIS new 8-page publication deals with adhesives, either as powders or in ready-mixed condition ('tub' paste) intended for the hanging of wallpapers (other than lincrusta) listed in BS 1248.

Limits are specified for acidity and alkalinity and two types of paste are distinguished according to their soluble chloride content.

Keeping qualities and adhesive properties are defined in terms of tests, full particulars of which are given in appendices. The standard, price 4s. 6d., requires adequate instructions for the preparation and use of the paste to be supplied with each package. A paste which, although complying with the requirements of the standard in other respects, is not recommended for use with particular wallpapers or decorations listed in BS 1248, is not excluded from the scope of the standard provided that details of the limitation are provided on or with the package. A British Standard for Higher Tensile Steel Hooks of the 'C' or Liverpool type (BS 3033: 1958), price 7s. 6d., has also been issued.

Mastic Asphalt for Tanking and Damp-proof Courses (Natural Rock Asphalt Aggregate). (BS 1418 : 1958)

ADVANCES in knowledge and technique since the first edition of this standard appeared in 1942 are reflected in this 14-page illustrated publication. It deals with mastic asphalt for tanking and damp-proof courses, composed of crushed and ground natural rock asphalt incorporated with one or two types of asphaltic cement normally with an added course aggregate.

Test requirements are specified for asphaltic cements and flux oils, natural rock asphalt, coarse aggregate and mastic asphalt mixtures. An entirely new feature is an appendix on 'Determination of the acid solubility of coarse siliceous aggregates.'

Following a section devoted to manufacture of the mastic asphalt and to re-smelting on site, is a list of methods for sampling and testing both finished products and their components. For the testing of natural rock asphalt and mastic asphalt mixtures the standard makes reference to the recently revised BS 598 'Sampling and examination of bituminous mixtures for roads and buildings.'

A marking clause requires blocks to bear the standard number (BS 1418) price 4s. 6d., and the manufacturer's identification mark: and elsewhere the standard provides for the optional use of BSI's certification monogram —the 'Kitemark.'

Purchasers and suppliers will find useful the appendix 'Recommendations for the Application of Mastic Asphalt for Tanking and Damp-Proof Courses.' Among the 12 subjects dealt with are: protection of horizontal asphalt, brickwork and keying, and continuity of lining. The standard points out that the recommendations have been included pending the preparation of a British Standard Code of Practice for tanking.

Pedestrian Guard Rails (Metal) (BS 3049 : 1958)

THE Metropolitan Police, the Royal Society for the Prevention of Accidents, the AA and RAC, Government and local authority interests and others concerned in road safety have joined forces to produce a new British Standard as above.

The standard, price 3s., was prepared at the request of large users, notably local authorities. It deals with the metal guard rails erected permanently at road junctions and other potential dangerspots or temporarily for outdoor functions and processions—to keep pedestrians off the roadway. The rails specified are not intended to be used as crush barriers.

Guard rails to BS 3049 will make far greater safety in four ways: (1) at 3 ft. 6 in. they are 6 in. higher than some existing patterns; (2) details of the design have been planned to discourage children (and others) from climbing on to or over the rails; (3) the space underneath the bottom horizontal member is reduced so as to make it difficult for children or dogs to run into the road unexpectedly; and (4) the 'in-filling' must be of wire mesh, expanded metal, vertical bars or other materials through which drivers can see.

From the point of view of the local authority, BS 3049, by standardizing the length of each bay (or section) will reduce the diversity of sizes of rail now being made. It will therefore make for greater ease of ordering, interchangeability of sections regardless of the origin of manufacture, and simpler erection, dismantling and repair work. The standard should result in economies both for local authority and other users and for the manufacturers of guard rails who will be able to concentrate production on a uniform design.

BS 3049 purposely does not restrict design so far as the cross-section of the various members is concerned but it does specify minimum strength requirements.

Copies of these Standards may be obtained from the British Standards Institution, Sales Branch, 2 Park-street, W1.

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EVERYDAY THINGS

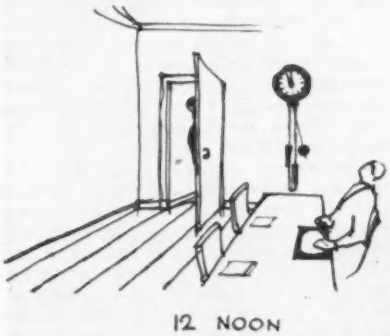
By Arthur W. Kenyon, CBE, FRIBA

LXIX.—The Opening of Tenders

IF Piccadilly can be wiped out at the whim of whoever it is, leaving only poor dwarfed little Eros to remind us of the glory that was the Circus, it is perhaps vain of me to think I can plead for one of the old simple little ceremonies which used to punctuate the lives of architects and builders—the formal opening of tenders. If such occasions are regarded as irrelevant to our present methods, then I should like at least to record for my own satisfaction the formal little procedure which was once quite an occasion in our working life.

The decks were cleared in the boss's office; chairs were placed round the table in as formal a manner as could be contrived, ready for the witching hour of 12 noon to strike. Tenders always had to be in by 12 noon—there was a sort of magic about this unalterable hour.

Outside in the hall there waited the representatives of the builders, each with his tender in a sealed envelope and a



12 NOON

priced bill of quantities, and at the magic stroke of the clock they were solemnly invited into the inner sanctum to hand in their prices.

There were, of course, times when the ceremony did not go to plan; when, for instance, there was an absent tender. Was it on its way? Had the messenger been delayed? Would the others wait, say for five minutes, whilst some telephoning was done? Of course, they always agreed, but there was a limit to the delay, and sporting as they always were, you knew you could only hold out for the time which you had asked for. Sometimes it came, sometimes it didn't, and if it didn't, then it was null and void.

Prepared beforehand was a list of tenderers, a copy being handed to each person in the room as he sat on the edge of the chair which had been placed for him. The architect was the only other person present, except perhaps his secretary, and as he opened the envelopes and read out the names, prices and times of completion, the others duly filled in the particulars on the list which had been given to them.

There was a tense five minutes, rather like a lottery draw, during which the architect tried to appear unconcerned and disinterested in the result, although in actual fact he was probably on tenterhooks lest there should not be one tender within the price which he had given to his client.

The ceremony was over, the representatives were formally thanked for their attendance. When they had gone, the architect was able to breathe a sigh of relief—or not, as the case might be. Neither the clients nor the quantity surveyors attended these meetings.

I believe the builders appreciated this ceremony. After all, they had worked hard to get the tender in on time and in those days most of them were keen on getting the job and were anxious to know the result as soon as possible. To-day the unsuccessful do not hear the result for some time, if at all, and Government departments have been known to look upon the tenders as documents of such secrecy as not even to be divulged to the architect.

Have these little ceremonies gone for good like so many other things? I never hear builders ask for tenders to be opened in their presence these days, so I suppose the 12 noon ceremony has gone from our offices along with the high stool.

HOUSING ALLOCATION SYSTEM

Local Authorities Criticised

CERTAIN changes in the principles under which local authority housing is provided and administered, also houses for which housing trusts are responsible, were advocated in a talk given at the Housing Centre, 13 Suffolk-street, SW1, on January 27 by Mr. Martin Bond, ACIS, FInstHousing, of the Peabody Buildings Donation Fund.

With regard to Council house tenants, MR. BOND said his theme was that many of them were quite ordinary people and they should be treated as such, neither being pampered nor dragooned. Local authorities should treat them in ways that were businesslike, human and reasonable.

Somebody was sure to say that housing should be treated as a social service, but, he said, the prime needs of life such as food, clothing, light and heat were not a social service. These things were off the ration and unallocated. There was choice and variety about them. Why should there not also be choice and variety in housing?

Mr. Bond pointed out that he was thinking in terms of people who wished to rent, rather than buy, their dwelling. He enumerated the things he did not like about local authority housing of the present day. For instance, the individual tenant was completely denied any choice of locality, size or character of dwelling. His own right to say what he wanted was totally ignored. What he wanted must conform with the points system or some other system instituted by the local authority.

The speaker did not like the way local authorities decided what proportion of a man's income he should spend on his housing accommodation. Some people would want to spend a lot of money on their housing, others would want an economical home so that they could have more money for other things.

A system of barter in homes had now grown up. Tenants of houses in one borough or district advertised in the newspapers that they wished to exchange houses with people living in another area. Tenants were charged rents heavily subsidised and below those for comparable accommodation in the same neighbourhood.

Why should it be impossible for a man to obtain a tenancy for a period longer than a week or a month? Up to 1914 even the agricultural tied cottage was on a basis of life or employment.

Mr. Bond said he disliked the situation in which the landlord did not permit his tenant to be responsible for the decoration, even if the tenant probably did it in any case.

What was to be done? The facility was to hand, in Section 115 of the Housing Act, 1957. This gave powers to local authorities to set up housing management commissions. This clause reproduced a clause in the 1936 Act which had never been used but which permitted a council to 'hive off' its housing activities to a housing management commission which would still be under the control of the council. This would take housing business away from the floor of the council chamber and politics and put it on a day-to-day basis.

He believed the bulk of municipally owned houses should be put on to the market, not for purchase but for letting. The local authority would only retain the houses it needed for those who really did require social service housing. The first duty of a local housing authority was to provide dwellings for those people who needed them as a social service.

As for housing trusts, said Mr. Bond, they were, generally speaking, concerned with absolute poverty, e.g., insufficient money for health and well-being. If it was accepted that absolute poverty began at the national assistance level, and if national assistance rules remained as they were to-day, it was impossible for housing trusts to relieve property. But again investigation would show that a great many of the tenants of housing trusts were quite ordinary people.

The principles of good management must be applied to housing trust administration. That meant giving reasonable security and keeping the family, in its wider sense, together. Segregation should be avoided as far as possible. Industry, i.e., hard work of the tenants, should not be penalised. There would still be poor and unfortunate people who needed a special provision to meet their needs.

By and large, rents should be ordinary, not exceptional, and if a profit was made it should not be something to be afraid or ashamed of. The task of the housing trust should be to widen its scope and not to increase benefits to the individual. It should avoid housing ordinary people on terms suitable only to special cases.

Technical Report on Lighting

The Illuminating Engineering Society has published a technical report entitled 'Lighting in Corrosive, Flammable and Explosive Situations.' This deals with hazards of explosion and fire which might start in lighting fittings, and with some conditions of corrosion which might affect their safe operation. The report is of particular interest to those manufacturing industries where atmospheric corrosion is a serious matter or where flammable liquids, vapours or dusts are present. Copies can be obtained from the IES, 32 Victoria-street, SW1, price 5s. each.

BUILDING MATERIALS IN 1958

Price Index Reaches Lowest Level in February

THE basic materials index reached its lowest level in February, 1958, then tended to move upwards until, at the end of the year, it was nearly 1½ per cent above the January level. Prices of materials used in the steel industry fell only slightly over the year and the building and furniture trades benefited from lower timber prices; imported softwood prices fell by 10½ per cent and imported hardwood prices by 3 per cent.

The building and civil engineering materials index fell by less than 1 per cent during the year, but the index for house building materials showed a slightly steeper decline and finished the year nearly 1½ per cent lower than in January. Both these indices were influenced by lower prices for iron and steel items and the recovery in the latter half of the year of non-ferrous metal prices. Imported softwood prices declined steadily throughout the year and there were falls in the prices of bricks and cast stone and cast concrete products.

PRICE INDEX NUMBERS FOR COMMODITIES (1954=100)

Commodity	Annual Averages		
	1956	1957	1958
Coal	127·1	136·5	140·8*
Slates	116·4	128·9	133·5
Refractory goods, including bricks	113·9	121·4	123·9
Non-refractory goods, including bricks	106·8	110·0	110·1*
Building bricks, common, and other than fletton, ex-works	109·3	111·3	111·6*
Building bricks, fletton, common, delivered ...	101·7	104·5	105·2
Glass (other than containers)	110·2	116·2	120·0
Cement	106·8	111·8	115·3
Cast stone and cast concrete products	102·3	103·8	103·2
Synthetic resins and plastic materials	96·4	94·6	93·7
Paint for decorating and building	102·8	108·6	109·0
Steel sheets	112·5	124·6	128·1
Aluminium and aluminium alloy products (extruded and drawn)	119·5	124·1	123·3
Galvanised cisterns, tanks and cylinders	116·4	119·8	112·6
Home-grown hardwood ...	113·1	110·9	102·2
Wallpaper	111·0	113·9	119·8
Aluminium, virgin ingots, delivered	122·0	126·3	118·2
Copper, ex-ship, wharf or warehouse	132·4	88·3	79·4
Lead, ex-ship, wharf or warehouse	120·6	100·2	75·5
Zinc, ex-ship, wharf or warehouse	124·9	104·4	84·2
Imported hardwood, ex-yard or wharf	103·9	105·5	104·0
Imported plywood (delivered to consumers) ...	91·5	95·1	96·5
Imported softwood (delivered to consumers) ...	109·5	109·7	102·1

* Provisional figure.

The annual average price index (1954=100) over 1958 for building and civil engineering materials was 114.2*; percentage changes were 1956 to 1957—plus 2.7 and 1957 to 1958 plus 0.4. The annual average for house building materials was 111.9*, and percentage changes were plus 2.7 for 1956 to 1957 and minus 0.4 for 1957 to 1958.

POST OFFICE BUILDING

Research into Reducing Costs

From a Correspondent

FIELD trials are to commence this year to test out ideas gained by Government research into the design and erection of Post Office buildings. These trials will comprise the erection of three typical Post Office buildings, designed by the Joint Post Office and Ministry of Works Development Group which was set up last year with the aim of reducing building costs.

The buildings concerned include a new head post office at Hitchin, a telephone exchange at Altrincham, and an engineering depot at Plymouth.

The Group began their task by making a detailed analysis of the cost of erecting 11 specimen post office buildings. This analysis was divided into two. While one sought to establish the cost per pound for the provision of roofs, walls and partitions, the other broke down the functional cost of providing accommodation for a telephone exchange, a sorting office, welfare space, and similar ancillaries.

Some of the results of this analysis include focusing attention on the heavy cost of digging out basements, the comparative cost of building staircases, and the discovery that many large and useless corridors are present in existing buildings.

As regards the erection of staircases, it was found that whereas in one building the cost equalled 1s. 7d. in the pound, only 7d. in the pound had been spent in another.

Experience gained has been applied in the planning of Hitchin post office. In this building it is hoped to eliminate all extraneous circulation space and there will be no basement accommodation. The cost is estimated at £80,000 as against £120,000 if it were built by normal methods.

Altrincham telephone exchange is expected to cost £30,000, or less than half the cost of previous buildings of this type. Work is to commence on this building in September this year for completion in December, 1960.

Consideration has also been given to the fact that a heavy backlog of Post Office building exists. It has been estimated that this will cost between £60m and £70m. and take about nine years to clear. Together with new requirements, it is estimated that at the present rate of progress, 12 to 15 years will elapse before Post Office accommodation is on a reasonable footing.

Prefabrication is another aspect that is being studied.

The 1958/59 Post Office building programme includes plans for the erection of 141 major new buildings, three of which will be in the London area. These include a new Western District Post Office to cost £1½m., a Head Post Office at Harrow, £500,000; and a new Battersea District Post Office, £400,000.

ALLEVIATING UNEMPLOYMENT

Construction Industry 'A Powerful Medium'

THE civil engineering contracting industry can be a powerful medium for alleviating immediate unemployment and starting off a revitalising of Britain's economy. MR. R. M. DOUGLAS, president of the Federation of Civil Engineering Contractors, stressed this point at the annual dinner of the Federation's Scottish Section held in Glasgow on February 24.

Mr. Douglas, who was replying to the toast of 'The Federation,' proposed by Lord Forbes, Minister of State for Scotland, said that the Government had already done a great deal to stimulate public investment in constructional works by, for example, asking local authorities to go ahead with schemes that could be put into commission quickly. Private industrial investment was, however, still sluggish and a restoration of investment allowances would prove a great inducement to industrialists to go ahead with their plans for expansion and development.

New civil engineering projects, both large and small, provided employment not only for the men employed on the construction work but also for men engaged in the manufacture of materials such as bricks, cement and steel. This, by creating purchasing power for consumer goods and services, provided a powerful means of starting off a revitalising of the economy.

The past year had been a difficult one for the civil engineering contracting industry, said Mr. Douglas, but the future prospects were now brighter. By the summer there should be a substantial upturn in activity. Mr. Douglas referred to a number of important civil engineering projects in Scotland, including the steelworks at Ravenscraig, the oil refinery development at Grangemouth, the nuclear power stations at Dounreay and Hunterston, the new tunnel under the Clyde and the new road bridge over the Firth of Forth.

Other speakers were Mr. H. A. Whitson, a member of the Federation's Scottish Section, who proposed the toast of 'The Guests,' the response to which was made by Mr. W. P. Haldane, City Engineer of Edinburgh.

'Ideal Home' Film

A professional trade and commercial colour film in Cinemascope dealing with the conversion, equipping and furnishing of an older type house entitled 'Ideal Home,' intended for general distribution at home and overseas, is being made by Ryan Films Ltd., 6 Drapers-gardens, EC2. This film is to be made with the co-operation of research centres, public and local authorities and others and filmed on actual location.

BRF Publication

While branch railway lines are being closed the very roads which will largely replace them are being neglected. In the publication 'Stitch in Time' the British Road Federation deplores the reduction in Government grants to local authorities for road maintenance in 1958-59. It emphasises the need for adequate grants year by year in a period of relatively high expenditure on new road construction and modernisation.

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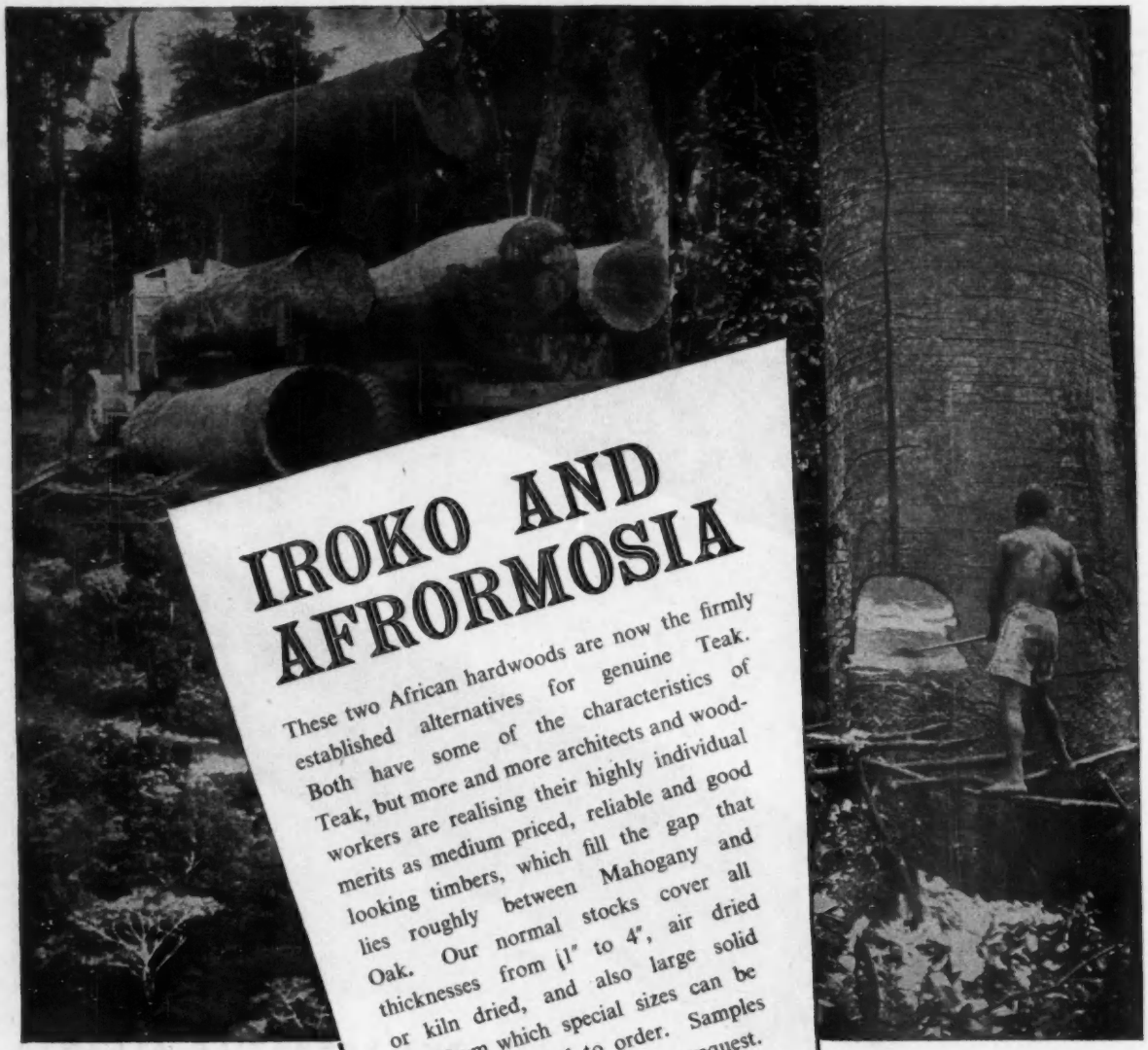

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'MORE APPRENTICES INDENTURED THIS YEAR'

Says Apprenticeship Committee Chairman

THE presentation of the 1958 National Joint Apprenticeship Board Prizes to London apprentices was performed by Mr. D. E. Woodbine Parish, FIOB, FBIM, vice-president of the National Federation of Building Trades Employers, in the Congress House, TUC Building, WC1, on February 18 under the chairmanship of Mr. W. R. Allen, MBE, chairman of the London Regional Joint Apprenticeship Committee. Guests included Mr. N. S. Farrow, MBE, FIOB, deputising for the president of the LMBA, Mr. K. J. Pearce, and Mr. R. W. Brocksopp, FIOB.

In welcoming the apprentices, their parents and friends, MR. W. R. ALLEN said that they had indentured slightly more apprentices this year than last, despite the credit restrictions, and added that they were quite happy about this. It was a pity that there were not enough boys in the painting and decorating trade and he hoped that this would soon be rectified. Continuing, he said that his committee had asked the City and Guilds for a recognised course in the floor tiling trade.

Welcoming Mr. Woodbine Parish, he said how pleased all those present were to see him there, for his vast experience in the building industry was well known and appreciated.

In his address, which followed the presentation of the prizes, MR. D. E. WOODBINE PARISH, who was in his usual good form, said that the TUC building was an appropriate setting for the prizegiving ceremony, for many of the apprentices in the industry had been engaged in building it. 'The building industry,' added Mr. Woodbine Parish, 'is a fine one to be in.' Turning to the parents he said that he was delighted to see so many of them there, for there was a certain amount of family pride in what the apprentices achieved.

He went on to state that a very long programme was ahead of the Industry. 'There are old factories to be pulled down and new ones to be built, in addition to new homes.' He then said that from the director downwards they were all part of one team. Concluding he said that the employers, the LMBA, and the Trade Unions were deeply concerned with the apprentices' well being.

A vote of thanks to Mr. Woodbine Parish was proposed by Mr. Farrow and seconded by Mr. Brocksopp.

There were 63 prizewinners, they are as follows:—

Prize Winners

Brixton School of Building:—E. J. Broome, Bricklayer, Richard Costain Ltd.; D. Chant, Mason, Webber & Corben Ltd.; R. J. Durrant, Plumber, Gee, Walker & Slater Ltd.; D. L. Francis, Carpenter/Joiner, Higgs and Hill Ltd.; P. Hayward, Woodcutting Machinist, Holloway Bros. (London) Ltd.; F. G. Herbert, Carpenter/Joiner, Herbert & Sons (Signs) Ltd.; L. J. W. Jarvis, Carpenter/Joiner, Bassett & Findley Ltd.; P. C. Jones, Carpenter/Joiner, Trollope & Colls Ltd.; M. G. Nash, Painter/Decorator, R. Mansell Ltd.; J. P. Ryan, Carpenter/Joiner, Richard Costain Ltd.; M. C. Sheen, Plasterer, Plastering Ltd.

Bromley College of Art:—D. C. Lockyer, Bricklayer, Higgs and Hill Ltd.; K. F. Squires, Carpenter/Joiner, George Green (Beckenham) Ltd.

Croydon Technical College:—M. G. Simmons, Carpenter/Joiner, Mullen & Lumsden Ltd.

Ealing Technical College:—J. McDermott, Bricklayer, J. M. Hill & Sons Ltd.

East Ham Technical College:—D. R. Brooks, Painter/Decorator, J. & R. Rooff Ltd.; J. J. D. Mahoney, Carpenter/Joiner, W. E. Tuck and Co. Ltd.; F. W. Randall, Carpenter/Joiner, Suburban Developments (Ilford) Ltd.; R. G. Sims, Plumber, George Murphy; R. E. Smith, Carpenter/Joiner, Edward W. Smith (Romford) Ltd.; A. Temperton, Bricklayer, John Mowlem & Co. Ltd.; S. Twichett, Carpenter, George Wimpey & Co. Ltd.

Erith Technical College:—N. J. Ballard, Bricklayer, Holland & Hannen and Cubitts Ltd.; D. Terry, Carpenter/Joiner, William F. Blay Ltd.

Ewell County Technical College:—M. D. Burlton, Woodcutting Machinist, W. H. Gaze & Sons Ltd.

Hackney Technical College:—D. Banks, Bricklayer, William Willett Ltd.

Hammersmith College of Art and Building:—F. K. Connor, Carpenter/Joiner, A. T. Chown & Co. Ltd.; R. W. Cuming, Carpenter/Joiner, Holland & Hannen and Cubitts Ltd.; M. J. Fowler, Carpenter/Joiner, Holland & Hannen and Cubitts Ltd.; B. F. Jetten, Bricklayer, Dearsley & Carter Ltd.; D. M. G. Thomas, Carpenter/Joiner, Holland & Hannen and Cubitts Ltd.; A. P. Tucker, Plumber, Bird & Cargill Ltd.; D. J. Wise, Carpenter/joiner, Leslie & Co. Ltd.

Northern Polytechnic:—J. H. Gardiner, Painter/Decorator, C. Bundock Ltd.; A. J. Potts, Carpenter/Joiner, Trollope & Colls Ltd.; C. A. Stacey, Plumber, Trollope & Colls Ltd.; P. D. Stevenson, Carpenter, Holland & Hannen and Cubitts Ltd.

South-East Essex Technical College:—B. R. Heaton, Carpenter/Joiner, R. L. Heaton; P. T. Walker, Carpenter/Joiner, Haines & Warwick Ltd.

South-West Essex Technical College:—R. A. Rhodes, Carpenter/Joiner, A. H. Lindsey and Sons Ltd.; J. C. Salmon, Carpenter/Joiner, E. Pollard & Co. Ltd.

South-East London Technical College:—M. T. Costin, Painter/Decorator, Fryer & Friar (Builders); R. J. Fisher, Carpenter, Leslie & Co. Ltd.; J. McColley, Plasterer, G. J. Green & Sons (G.J.G.) Ltd.

Southall Technical College:—C. A. Barnes, Carpenter/Joiner, Taylor Woodrow Construction Ltd.

Tottenham Technical College:—R. Bates, Plumber, Holloway Bros. (London) Ltd.; A. Hiom, Carpenter, A. C. MacKinlay Ltd.; F. S. Margrove, Bricklayer, Holland & Hannen and Cubitts Ltd.

Twickenham Technical College:—P. Dyer; Carpenter/Joiner, R. Cattle Ltd.; A. E. Jaycock, Bricklayer, T. S. Appleton Ltd.; D. G. Seagrove, Painter/Decorator, Fassnidge Son & Norris Ltd.

Wandsworth Technical College:—J. W. Bishop, Carpenter/Joiner, Benham & Sons Ltd.

Watford Technical College:—M. S. Bacon, Carpenter, Borough Engineer & Surveyor, Watford; T. C. Kingham, Carpenter, Chas. Brightman & Son Ltd.

Willesden Technical College:—J. A. Hamlyn, Carpenter, Higgs and Hill Ltd.; J. Hill, Plasterer, Hill Bros. (Uxbridge) Ltd.; J. Hutchinson, Bricklayer, Kyle, Stewart (Contractors) Ltd.; J. W. H. Mead, Painter, Holland & Hannen and Cubitts Ltd.; A. F. Richins, Woodcutting Machinist, Holland & Hannen and Cubitts Ltd.; I. D. Rutherford, Plumber, P. R. Atkins Ltd.; B. K. Taylor, Carpenter/Joiner, Hickman Ltd.

Woodwich Polytechnic: — C. J. Benge, Plumber, Woolwich Borough Council; E. W. Tappenden, Bricklayer, Holland & Hannen and Cubitts Ltd.

PLANNING DECISIONS

New Speed up

TRADERS and others who have been urging their local authorities and the Minister to speed up planning decisions may soon have an answer, writes a correspondent.

Regulations are in draft designed to sweep away much of the red tape. There will also be a relaxation of some controls and more powers for local authorities to 'challenge' the right to develop in certain ways.

Representatives of the local authority associations and other interests are at present discussing the draft new rules with senior Ministry officials.

SHEFFIELD COLLEGE OF TECHNOLOGY

Department of Building Prize-Giving

MR. REX PROCTER, ARIBA, FRICS, FIArb, presented certificates and prizes to students of the Department of Building of the Sheffield College of Technology at the City (Memorial) Hall, on February 11. In his address Mr. Procter said that technical colleges were in many cases against their wishes turning out technicians where they would like to turn out rounded professional practitioners. Colleges were advised to ensure the development of an all-round character in conjunction with the excellent technical education they were now giving.

MR. W. ALEXANDER, ARIBA, AIOB, head of the department of building, reported that his department had shown marked and continued development particularly in the general building and professional courses where part-time day courses were to final level and were supplementing the full-time regional course in quantity surveying, and the regional sandwich courses in building and in civil engineering. The department had record successes in the City and Guilds of London Institute examinations, the professional examinations and in National Certificates.

Students had obtained National prizes in the City and Guilds examinations in Plumbers' Work, Heating and Ventilating Fitter/Welders' Work and in Concrete Practice.

NFBTE National awards were presented by Mr. G. R. Eastwood, President of the Sheffield Building Trades Employers Association, to R. T. Swancott, who obtained second prize of £40 and Bronze Medal, G. Hudson and D. Barrett, who obtained prizes of £25 and £20 respectively for the first and second best result in the Ordinary National Certificate in the Region, for student apprentices.

Alderman A. Ballard, Deputy Lord Mayor and Mr. T. H. Tunn, Director of Education, also spoke.

EAST HAM TECHNICAL COLLEGE

Principal's Report

MR. G. PEMBER, principal of East Ham Technical College, in his report for the session 1957-58, presented at the distribution of prizes, held on February 5 at the College, referred to the growing interest in the reduction of pollution of the atmosphere by smoke from industrial and domestic chimneys and the more efficient use of solid fuel. As a contribution to the solution of the problem the department of building had collaborated with the Coal Utilisation Council in running a series of one-day courses for fixers of domestic heating appliances.

In the building industry, MR. PEMBER stated, a slight recession and an increasing tendency to have work done by sub-contractors at piece-work rates had resulted in a smaller intake of apprentices into the industry. The department had done well to maintain its enrolments at slightly above the figures for the previous year.

The presentations were made by Mr. D. E. Woodbine Parish, FIOB, FBIM, Councillor A. G. M. Oakes, JP, being in the chair.

MoW WINTER LECTURES

Programme for March, 1959

THE March programme of Ministry of Works lectures on subjects of interest to the building industry is as follows:—

Northampton.—March 3: 'The RIBA Form Of Contract,' by I. N. Duncan Wallace, at Northampton College of Technology, St. George's-ave. 7.15 p.m.

Reading.—March 3: 'Seasoning And Preservation Of Timber,' by B. W. Eades, at the Technical College, King's-rd. 7.15 p.m.

Redruth.—March 3: 'Work Study In The Building Industry,' by A. E. Chittenden, at Cornwall Technical College, Trevenson, Pool. 7 p.m.

Chelmsford.—March 4: 'Thermal Insulation Of Buildings,' by F. King, at the Golden Fleece Hotel, Duke-st. 7.30 p.m.

Newport (Isle of Wight).—March 4: 'Defects In Brickwork,' by L. W. Baldwin, at the Technical College, Hunnyhill. 7 p.m.

Rugby.—March 4: 'Essentials Of Good Concreting,' by E. E. H. Bate, at Rugby College of Technology and Arts, Eastlands. 7.15 p.m.

Sheffield.—March 4: 'Prestressed Concrete,' by H. Kaylor, at the Department of Building, College of Technology, Salmon Pastures, Warren-st. 7.15 p.m.

Cheltenham.—March 6: 'Arbitration In Building Disputes,' by N. P. Greig, at North Gloucestershire Technical College (Board Room), The Park. 7 p.m.

Hammersmith.—March 9: 'Nuclear Energy And Some Associated Problems,' by W. L. Day, at Hammersmith School of Building and Arts and Crafts, Lime Grove, W12. 7.15 p.m.

Folkestone.—March 10: 'Glued Timber Laminations,' by W. A. Chugg, at the Technical College, Shorncliffe-rd. 7.15 p.m.

Redruth.—March 10: 'Introduction To Site Costing For Builders,' by A. E. Chittenden, at Cornwall Technical College, Trevenson, Pool. 7 p.m.

Bristol.—March 11: 'Good Practice In Domestic Drainage,' by F. J. Crabb, at the Lesser Hall, Kingsley Hall, Old Market-st. 7.30 p.m.

East Ham.—March 11: 'Sound Practice In The Use Of Wood In Building,' by R. P. Woods, at East Ham Technical College, Arragon-rd. E6. 7.15 p.m.

Manchester.—March 11: 'The Use Of Packaged Bricks,' by C. J. D. Webster, at the Lecture Theatre, Town Hall Extension. 7.15 p.m.

Margate.—March 11: 'The Builder And His Contract,' by N. P. Greig, at Thanet School of Art and Crafts, New Cross-st. 7.15 p.m.

Yeovil.—March 11: 'Work Study In The Building Industry (Part II),' by A. E. Chittenden, at Hendford Manor Hall, Hendford. 7.30 p.m.

Bolton.—March 12: 'Thermal Insulation Of Buildings,' by N. Foster, at the Technical College, Manchester-rd. 7.15 p.m.

Derby.—March 12: 'Safety In The Building Industry,' by J. A. Hayward, at Derby and District College of Technology, Building Department, Normanton-rd. 7.15 p.m.

High Wycombe.—March 12: 'Concrete Placing And Formwork,' by A. B. Harman, at the College of Further Education. 7.15 p.m.

Salisbury.—March 12: 'Work Study In The Building Industry (Part II),' by A. E. Chittenden, at the Red Lion Hotel. 7 p.m.

Lancaster.—March 16: 'Modern Timber Construction,' by H. Wilkinson, at Lancaster and Morecambe College of Further Education, Torrisholme-rd. 7.30 p.m.

Walthamstow.—March 16: 'Work Study In The Building Industry,' by C. A. Francis, at S.W. Essex Technical College and School of Art, Forest-rd., E17. 7.15 p.m.

Carlisle.—March 17: 'Small-Pipe Central Heating,' by W. J. G. Langstaff, at the Technical College, Victoria-pl. 7.15 p.m.

Chesham.—March 17: 'The Importance Of Moisture Content In Timber,' by W. C. Stevens, at the Technical School, Whitehill. 7 p.m.

Grantham.—March 17: 'Problems Of Plastering and Rendering,' by E. L. Westbrook, at the College for Further Education, Avenue-rd. 7.15 p.m.

Redruth.—March 17: 'Safety In The Building Industry,' by J. A. Hayward, at Cornwall Technical College, Trevenson, Pool. 7 p.m.

Wrexham.—March 17: 'Plastics In The Building Industry,' by H. N. Davies, at the Lecture Hall, Technical College. 7 p.m.

Llangefni.—March 18: 'Plastics In The Building Industry,' by H. N. Davies, at the Shire Hall. 7.15 p.m.

Ewell.—March 18: 'Dampness In Buildings,' by W. A. Hammond, at Ewell County Technical College, Reigate-rd. 7.15 p.m.

Halifax.—March 18: 'Thermal Insulation Of Buildings,' by P. A. Denison, at Percival Whitley College of Further Education, Francis-st. 7.15 p.m.

London.—March 18. Discussion: 'Value For Money In Building,' by R. Baden Hellard, at the Building Centre, Store-st., WC1. 6.30 p.m.

Workington.—March 18: 'Small-Pipe Central Heating,' by W. J. G. Langstaff, at the Technical College, Park-la. 7 p.m.

Connah's Quay.—March 19: 'Plastics In The Building Industry,' by H. N. Davies, at the Lecture Theatre, Technical College. 7 p.m.

Wigan.—March 19: 'Structural Fire Protection,' by G. J. Langdon-Thomas, at Wigan and District Mining and Technical College, Library-st. 7.30 p.m.

Halifax.—March 20: 'Five Centuries Of Building In Halifax And District,' by C. Sunderland, at Percival Whitley College of Further Education, Francis-st. 7.15 p.m.

Halifax.—March 20: 'Small-Pipe Central Heating,' by A. R. Robertson, at Percival Whitley College of Further Education, Francis-st. 7.15 p.m.

Halifax.—March 23: 'Sound Practice In The Use Of Wood In Building,' by J. Jowett, at Percival Whitley College of Further Education, Francis-st. 7.15 p.m.

Liverpool.—March 23: 'Safety In The Building Industry,' by J. A. Hayward, at the Lecture Hall, College of Technology, Byrom-st. 7.15 p.m.

The winter programme will conclude with the following lectures:—

Colchester.—April 2: 'Good Practice In Domestic Drainage,' by F. J. Crabb, at North East Technical College, Sheepen-rd. 7.15 p.m.

Cheltenham.—April 3: 'Soil Mechanics In The Building Industry,' by A. F. Mendoza, at North Gloucestershire Technical College (Board Room), The Park. 7 p.m.

CEMIAN MOTOR CLUB

Silver Jubilee Year

THE Cemian Motor Club commenced its Silver Jubilee year with their annual meeting on February 18 at the Club Headquarters, The Lotus Restaurant, Haymarket, W1. The following officials were elected:—President, R. L. Sadler; honorary secretary, F. L. Rourke; honorary competition secretary, B. G. Norman; honorary treasurer, R. E. Reynolds.

The annual dinner and dance was held at the Rembrandt Hotel on February 6, some 170 members, guests and friends attended. Principal guest of honour was Dr. J. Jardine Brown, MA, LLB, Principal of the College of Estate Management, who proposed the toast of the Club. The response was made by the retiring President, Mr. G. T. Wilby.

The awards won in the club's events during the year were presented by Mrs. Jardine Brown. These were the Performance Trophy for the best aggregate performance in all events, won by Mr. B. E. Shorter, and the Reynolds Trophy for the best aggregate performance in the Club's events amongst the current students of the College, won by Mr. D. Taylor.

The fixture list for 1959 includes an event every month, the main dates being the two Restricted Invitation events—The Coronation Rally on April 25/26 and the Knowland Trophy Driving Test Meeting on June 28.

Particulars of the Club may be obtained from the Honorary Secretary, Mr. F. L. Rourke, 26 Soho-square, W1.

BUILDING IN THE CITY

Swimming Pool Included in Golden Lane Housing Scheme

AT their meeting on February 19 the Court of Common Council authorised an increase in the total amount allowed for the Golden Lane Housing Estate scheme from £1,907,000 to £2,325,000.

As well as approving this recommendation of the housing committee, they also approved the tender of Gee, Walker and Slater, Ltd.—the lowest, at £766,364—for the construction of the remainder of the estate, in the form of an extension westwards from the original site over an area fronting Goswell-road.

The tender, which is fixed price and is to be completed within two years of acceptance, covers the erection of 275 flats, 60 underground garages, 20 shops with basement stores, a public house with cellar, club rooms, badminton court, small swimming pool and nursery.

MR. THOMAS HARROWING, chairman of the housing committee, pointed out that it contained 'the first concrete proposal for adding to the antiquated swimming facilities for city workers which has been before the Court.'

Mr. Harrowing said the pool would be erected at comparatively low cost. They already had the site, which could not be used for any more useful purpose as they were already building to the utmost density permitted. No additional equipment would be needed to heat water and air at the pool. If they attempted to build a similar pool in any other part of the City it would cost at least double if not treble the amount included in the estimates.

Answering Col. H. Brookhouse, Mr. Harrowing said the pool would measure 66 ft. 8 in. by 27 ft.—approximately the same as the bath at St. Bride's.

An amendment by COL. BROOKHOUSE that the question of the swimming bath should be referred back, so that consideration could be given for planning a larger one, was defeated.

In a printed report to the Court, the housing committee state that the capital cost of the swimming bath, together with equipment for filtration, heating, ventilation and provision of changing rooms, lavatories, etc., would be £30,000, which was included in the tender submitted.

The Court also approved a recommendation of the special committee that provision should be made in the next Various Powers Bill to empower the Corporation to provide and manage swimming baths.

Developments Refused

Among the recommendations of the improvements and town planning committee was that permission should be refused for a revised layout of the car park at Bucklersbury House, including washing and greasing bays in connection with the use of the basement car park as a public garage.

Giving their reasons for the refusal, the committee say the introduction of washing, greasing and polishing facilities would materially reduce the effective area of the car park, the layout of which, as approved on July 25, 1957, is already sub-standard and would establish an industrial use which is not ancillary to the main purpose of the building, and which would therefore be contrary to

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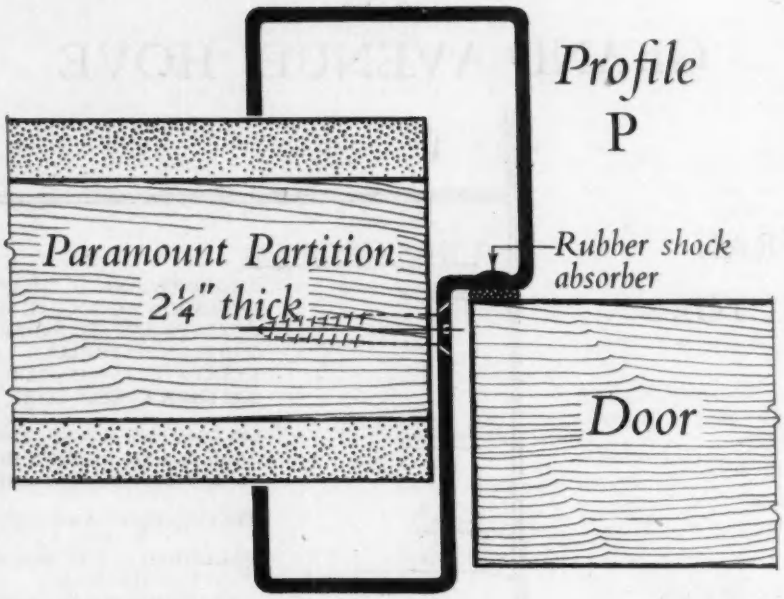

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conditions of the permission dated July 4, 1957.

Other developments refused by the committee were:—

The erection of a new building for use as a warehouse at 31 to 33 (odd) Aldgate-avenue, within the Portsoken Section (Part G) of the Comprehensive Development Area in Redevelopment Unit No. 34 (architects, Shingler and Risdon, 47 Bedford-row, WC1). Reason for refusal: It would seriously affect the road improvement proposals for the area and would prejudice the Corporation's proposals for the comprehensive redevelopment of the area.

Rebuilding of the war damaged station buildings, consisting of a booking hall, lock-up shops, together with offices on five floors over, at 1 to 4 Cheapside and 2 and 3 Panyer-alley (within the central section, Part B, of the Comprehensive Development Area) (applicants, London Transport Executive). Reason for refusal: The proposed development of the sites is question as a single unit would prejudice the approved comprehensive redevelopment and road proposals for the area.

Developments Permitted

The committee recommended that the following developments should be permitted subject to conditions:—

Erection of a four-storey office building, with a public restaurant in the basement, at 4 and 5 Wine Office-court (architects, Kenneth Lindy, Joseph Hill and Partners, 24 St. Mary Axe, EC3).

Reconstruction of the third floor and the erection of an additional fourth floor for residential accommodation at 148 Fleet-street (developers, Garrett, White and Poland, 5 Dowgate-hill, EC4).

Erection of an addition at first floor terrace level as an extension to a restaurant at Henekeys, Ltd., Lawrence-lane, Cheapside (redevelopment Unit No. 11) (architects, W. Curtis Green, Son & Lloyd, of 5 Pickering-place, SW1).

The Committee recommended the acceptance of the lowest tender, made by Willment Bros., Ltd. (£3,796 19s. 10d.), for site clearance and filling works in respect of land bounded by Cannon-street, Bread-street, Queen Victoria-street, and Friday-street (redevelopment unit No. 5). They recommended the work should be put in hand forthwith. The Committee also recommended that the lowest tender, again by Willment Bros., Ltd. (£4,099 3s. 6d.), should be accepted for the demolition of 48-54 Ludgate-hill and 68-70 Old Bailey, which form part of redevelopment unit No. 16, the works to be put in hand forthwith.

The following developments in accordance with plans should also be permitted, said the Committee:—

At Clements House, 14 to 18 (even) Gresham-street and 12 to 18 Wood-street, retention of the roof structures and external staircase to the roof as erected, and the carrying out of alterations in connection therewith, and the retention of the random patterning to the window spandrels as erected (architects, Trehearne and Norman, Preston and Partners, 83 Kingsway, WC2).

At 67 to 69 Watling-street, roofing over an open area in the basement (architects, Fitzroy Robinson and Partners, 3 Gray's Inn-square, WC1).

The Committee recommended that permissions should be granted on an outline application for the following development, subject to certain conditions:

At 2 and 2A Throgmorton-avenue, alterations and change of use of the ground floor and basement and/or alternatively, the northern part of the ground floor and basement from a post office training school to shops (architects, H. G. Tilley, 3 Kings Bench Walk, EC4).

It was also recommended that drawings should be approved for the erection of a new building for use as a bank headquarters at 56 to 58 Cheapside and 1, Bow Lane (architects, Trehearne and Norman, Preston and Partners, 83 Kingsway, WC2); and for the erection of a single-storey shop and its retention for a limited period of three years at 68 St. Paul's Churchyard (applicant, E. J. Floyd Ewin, of The Chapter House, St. Paul's Churchyard).

INQUIRY BUREAU

General Contractor's Discount

Q.—Under Clauses 21 and 22 of the RIBA Form of Contract nominated sub-contractors and nominated suppliers accounts are to include 2½ per cent and 5 per cent cash discount respectively for the general contractor. If this had not been allowed an allowance in lieu thereof is to be made in the final account. Should an increase in the cost of labour and materials or purchase tax occur during the period of the contract this is usually included in the sub-contractor's or supplier's account as a net item: i.e. not subject to cash discount.

In this case is the surveyor, when preparing the final acount, entitled under the RIBA Contract to make an allowance to the general contractor in lieu of cash discount? TW.

A.—Clause 21(a) provides that (unless the architect or contractor otherwise agree) no nominated sub-contractor shall be employed who will not grant a 2½ per cent for cash on the payments certified under clause 24 as due to the sub-contractor. There is no express reference to payments to the contractor in lieu of the cash discount, although such a payment might be agreed upon between the architect and contractor if it is desired to employ a nominated sub-contractor who will not agree to the cash discount. Moreover, in my opinion it is clear from clause 21(b) that the cash discount of 2½ per cent is to apply to the sum actually certified by the architect as due to the nominated sub-contractor.

Similarly, clause 22 provides that the contsactor is not bound to place an order with a nominated supplier who will not agree to allow a cash discount of 5 per cent. Again, there is no express reference to payments in lieu.

Clause 22(b) indicates that the discount for cash is to apply to the amount actually paid by the contractor to the nominated sub-contractor. The question of purchase tax has been dealt with in Practice Note 15 of the Joint Contracts Tribunal.

In the absence of special circumstances, I am of the opinion therefore that the answer to this question is 'NO.' A. E. T.

Separating Walls

Q.—I shall be glad if you could please settle for me a query regarding the interpretation of the by-law dealing with walls separating flats and maisonettes, etc. (By-law 44.) Under the Third Schedule, paragraph 6 of the Model By-laws, reference is made to party walls in domestic buildings not being less than 8½ in. thick, but under By-law 44 it would appear to me that subject to sub-paragraphs (a) and (b) the thickness of the wall is determined by its degree of fire resistance, rather than that as laid down under the Third Schedule.

My point in assuming this is that in all other references to party walls for small houses, By-law 44 is usually excluded, and I feel it was with the intention of meeting the cases of converting old houses that By-law 44 was introduced into the Model Clauses. I should be grateful for your advice on this. C. B.

A.—By-law 44 mentioned in the question corresponds to Model By-law 45, and is in the following terms: 'A wall constructed for the separation of flats or maisonettes within a building (other than a load bearing wall to which the next succeeding by law relates) shall be incombustible throughout and have a fire resistance of—(a) one hour if the building is a domestic building intended to be used wholly or predominantly for human habitation and exceeds either 50 ft. in height or 2,500 sq. ft. on any one storey in floor area; (b) half an hour in any other case.'

These provisions are functional requirements which must be complied with as a matter of law. The Third Schedule, paragraph 6, sets out one method of complying with the basic functional requirement. That is, a builder who adopts paragraph 6 will be deemed to satisfy the requirement of By-law 44. It is open to him to adopt other methods if he chooses, but in that event there may be argument as to whether he has satisfied the requirement of By-law 44.

As regards the latter part of the question, I am of opinion that By-law 44 applies equally to new buildings and to conversions.

A. E. T.

WD SCHEDULE OF PRICES

Revised Addendum 'A'

REVISED ADJUSTMENT percentages to trade sections of the War Department Schedule of Prices for Works Services (1948), applicable to War Department Term Contracts (other than Term Contracts for Painting and Decorating Services) and effective from February 2, 1959, are as follows:—

Section	Trade	Percentage addition
1	Excavator	163
2	Concretor	126
3	Bricklayer	122
4	Asphalter	67
5	Drainlayer	96
6	Mason	116
7	Pavior and Roadmaker	80
8	Roofer	105
9	Asbestos Cement Goods	100
10	Carpenter and Joiner ...	100
11	Ironmonger	95
12	Ironfounder, Smith and Structural Engineer...	143
13	Gasfitter	129
14	Plasterer, Floor and Wall Tiler	116
15	Plumber	109
16	Electrician	105
17	Glazier	116
18	Painter and Decorator	122
19	Hutting	75

NEWS IN BRIEF

Clerk of Works' Dinner

THE Institute of Clerks of Works of Great Britain Incorporated will be holding their 77th annual anniversary dinner in the Balmoral Suite, at the Connaught Rooms, Great Queen-street, WC2, on Saturday, April 11, at 6.30 p.m. The Guest of Honour will be Mr. A. Goldfinch, ERD, Dipl. TP (Leeds), FRIBA, Chairman Royal Society of Health. Tickets are available to members from A. E. Sainsbury, 1 Ormondegate, Chelsea, SW3, price 30s. each.

Building Estimators' Examinations

The Intermediate and Final Examinations of the Institute of Building Estimators will this year be held on May 27, 28 and 29, 1959, at the Royal Society of Health, 90 Buckingham Palace-road, SW1. Details from the Institute at 10 Cromwell-place, South Kensington, SW7.

Federation Year Book

The Eastern Federation of Building Trades Employers have recently issued their Directory and Year Book for 1959 which contains details of officers elected for the year, a list of members in each local Association and other interesting data. The Federation headquarters are at 95 Tenison-road, Cambridge.

Modular Society Catalogue

The Modular Society Ltd. have issued Sheets No. 38, 39 and 40, making the tenth issue of the Modular Catalogue. These sheets, which are issued serially to members of the Society, are entitled 'Lighting Equipment,' 'Curtain Walling' and 'Precast Concrete Flooring Units' respectively. Copies from the Society at 22 Buckingham-street, WC2.

£150,000 for Multi-Storey Car Parks

The sum of £150,000 for multi-storey car parks in Sheffield has been placed in Sheffield Corporation's capital estimates for next year, said Alderman H. Keeble Hawson, at a Sheffield Municipal Officers' Guild brains trust at Shiregreen Community Centre on February 20. He added 'It will not go very far. Triple that amount will be needed.'

Civil Engineering Films and Models

A number of civil engineering contracting firms have films and models which are available for loan to schools and universities, educational authorities, clubs, societies, professional associations and others similarly interested in civil engineering projects at home and abroad.

An up-to-date list of these films and models has been prepared. Copies may be obtained, free of charge, from the Federation of Civil Engineering Contractors, Romney-house, Tufton-street, SW1.

Factory on Aerodrome?

An American firm who manufacture oil drilling machinery want to build a factory on the site of the Silloth aerodrome in Cumberland. Their representatives have viewed the site. The proposal is welcomed locally in an area where unemployment is threatened, but the firm are not happy over the position that the airfield is scheduled to close in 1960. They are unable to wait until then. However, an Air Ministry spokesman told a representative of *The Builder* at the weekend that it may close earlier if required for industry. The matter is being treated as 'urgent' by local councils.

National Insurance Contributions

From February 16 a Class 1 (employed persons) contribution will not be paid for a week in which an employee does no work for his employer and for which he receives remuneration of £2 or less whether as wages or holiday pay. This is the effect of regulations (The National Insurance and Industrial Injuries (Collection of Contributions) Amendment Regulations, 1959, HMSO, price 3d.) made by Mr. John Boyd-Carpenter, Minister of Pensions and National Insurance. At present, a Class 1 contribution is payable in these circumstances if the employee gets any remuneration, holiday payments up to £1 being ignored. A Class 3 (non-employed) contribution normally has to be paid by the employee, if there is no liability for a Class 1 contribution.

OFFICIAL NOTIFICATION

The Town and Country Planning (Mortgages, Rentcharges, etc.) Amendment Regulations, 1959

THESE REGULATIONS (HMSO, price 3d.), which have been issued by the Ministry of Housing and Local Government, amend the Town and Country Planning (Mortgages, Rentcharges, etc.) Regulations, 1955, which deal with claims made under the Town and Country Planning Act, 1954, in respect of certain interests in land including interests subject to the trusts of a settlement. The present regulations provide for the application (where appropriate) of moneys paid under Parts I, II and V of the Act as capital moneys under the Settled Land Act, 1925, or as proceeds of sale of land held on trust for sale, in order that Settled Land Act trustees or trustees for sale, as the case may be, can exercise the powers given in relation to such moneys by the Settled Land Act, 1925, or the Trustee Act, 1925. The regulations came into force on February 18.

TRADE NEWS

Fire Test Report

THE Fire Research Station has carried out a special investigation fire resistance test on a 'Thermacoust' slab roof deck. Details of the report describing the two-hour classification given to the material may be obtained, free, from Thermacoust Ltd., 20 Albert Embankment, SE11.

Colour Scheme Service

'Colorvogue' colour selector is an album of 10 in. x 8 in. paint samples in all the standard retail colours of Brolac paints—gloss, eggshell and matt. A colour plans booklet is inserted in front of the album. The albums will be supplied to every Brolac stockist during February and will be available for inspection or may be borrowed by arrangement. Details from John Hall & Sons, Ltd., Rommilly House, Petherton-road, Bristol 4.

Changes of Address

The address of Dixon's Paints Ltd., manufacturers of the 'Roggstone' paint system, is now Ajax Works, Hertford-road, Barking, Essex.

Malthouse (Builders) Ltd., formerly of 320-322 Barking-road, Plaistow, E13, have now moved to 48 Wellington-street, Woolwich, SE18. Telephone number is Woolwich 5535.

Holoplast Ltd. have moved their London office to 2 Caxton-street, SW1, with effect from February 9. The new offices form part of St. Ermin's Hotel, and the new telephone number is Abbey 4866.

The London office of the Daniels Group which includes T. H. & J. Daniels, Ltd., British Boiler Accessories, Ltd., and Prat-Daniels (Stroud) Ltd., is now situated at 62/3 Fenchurch-street, EC3. Telephone: Royal 4122/6305.

Midland Office Opened

A new Midland area sales office of High Duty Alloys Ltd. has been opened at Queen's College Chambers, 38a Paradise-street, Birmingham, 1. Telephone: Midland 3286.

PERSONAL COLUMN

F. Hills & Sons Ltd. have invited SIR TSIBU DARKU, OBE, and M. A. CASELY HAYFORD, MP (Ghana), to join the Board of a new subsidiary company, F. Hills & Sons (Takoradi) Ltd., which has been formed to act as managers for their saw mills, plywood and other woodworking activities in Ghana. Also on the Board are MESSRS. E. B. GOLDSON and G. F. ROUTLEDGE, who are directors of the parent undertaking and MESSRS. G. HUNTER, J. MARSH, J. MICO, J. SIMPSON, who have been acting in an executive capacity for Hills in Ghana for some years. No change is contemplated in the manufacturing operations or in the trading policy.

MR. JAMES D. FURSE, 40, has been appointed manager of the Refrigeration Department of W. J. Furse & Co., Ltd., Nottingham (member of the EV Industrials Group), following the death, in a road accident, of the previous manager, Mr. J. French.

At the meeting of the Board of Directors on January 27 MAJOR-GENERAL A. E. WALFORD, CB, CBE, MM, ED, was elected chairman of the board of directors of Canadian Vickers Ltd.

The public relations function within the De La Rue Group of Companies has been decentralised, and as a result MR. J. D. RICE has been appointed public relations officer to Thomas Potterton Ltd., the gas-fired and oil-fired boiler manufacturers.

Jno. Croad Ltd. (the Portsmouth subsidiary of Trollope & Colls Ltd.) have announced the appointment of MESSRS. K. KANAVAN and G. S. RENDALL as technical directors of the company. All the present members of the board are retaining their directorships and will continue to maintain an active participation in the company's business.

MR. N. C. BROWN, managing director of N. C. Brown, Ltd., of Eagle Steel Works, Heywood, Lancs, has left for a tour of East and South Africa where he will meet customers.

Concrete Ltd. announce that, completing the policy of decentralisation, the Bison Works at Lichfield and Hounslow have been formed into separate companies. The name of the former is Concrete (Midlands) Limited, and the latter, Concrete (Southern) Limited. The directors are:—Midlands: K. M. WOOD, E. G. B. BUSH, J. BARRATT, F. A. BIRTLES, W. T. BOWEN, J. HARLOW, M. C. JENKINS, R. ZUCCHI, F. W. GIFFORD. Southern: J. BARRATT, K. M. WOOD, E. G. B. BUSH, D. W. WOOD, G. WIGGLESWORTH, F. W. GIFFORD, J. HEANEY, P. O'HARA, P. J. SCHYVER, W. K. JACKSON.

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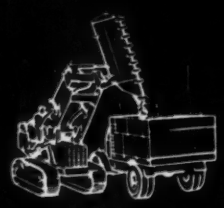

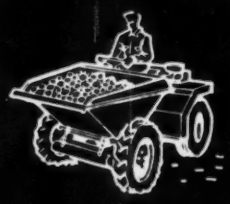

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IN PARLIAMENT

By Our Parliamentary Correspondent

EXPENDITURE AT THE RADCLIFFE INFIRMARY

THE Treasury have been assured that all future building work at the Radcliffe Infirmary, Oxford, will be undertaken in accordance with the normal procedure for hospital building schemes requiring the approval of the Ministry and, where necessary, the Treasury. This is stated in the Treasury's reply to criticisms by the Committee on Public Accounts about the financial control of building projects at the Infirmary, published as a White Paper on February 13.

Estimates for a scheme for adaptations and new construction at the infirmary, originally expected to cost £434,390, went up to £1,400,000, and the Committee on Public Accounts said they were seriously concerned that the Board of Governors, under 'extreme pressure by the university,' should have been able to commit the Ministry of Health to considerable extra expenditure without prior approval. They said they hoped that future commitments on the project would be effectively supervised and that the Ministry's arrangements for financial control of large building projects should be reviewed to ensure that they were fully informed of developments.

Referring to the infirmary development scheme, the White Paper states: 'The exceptional contractual arrangements which were made in order that work should progress quickly, made it difficult for the Ministry to exercise control once there had been a departure from the normal procedure.'

The White Paper says that for all future building work at the infirmary the Board of Governors would obtain competitive tenders and work would be authorised only when the Ministry of Health was satisfied by examination of the working drawings and bills of quantities that the work proposed was necessary and was designed and would be executed with proper economy. The Ministry would make it a condition of the start and continuance of any further work that quarterly returns of progress were made and that any proposed variations from or additions to the agreed plans were submitted to them for prior authority.

The Treasury state they understood that the Ministry were informed of all tenders invited for larger hospital building projects and were consulted about any proposed variations from projects which they had approved and about any other factors likely to increase costs. They obtained from hospital boards quarterly returns of their expenditure on building schemes, including individual returns for each of the larger schemes as a means of checking whether their instructions had been complied with.

THE PRESTON BYPASS

OVER 70 Labour MPs tabled a motion on February 12 referring to the closure of the Preston bypass. The Prime Minister is urged to appoint an independent inquiry into all the circumstances relating to its planning, design, specification and construction 'in view of confusion arising from allegations and denials that amendment by the Ministry of Transport and Civil Aviation of the specification proposed by the Lancashire County Council was the cause of failure of the Motorway to withstand the weather experienced after its opening.'

Three Scottish Labour MPs tabled a motion urging the Government to extend immediately the provision of major public works in Scotland and in particular to name an early date for a start to the building of the proposed Tay Road Bridge.

THE HOUSE PURCHASE AND HOUSING BILL

DISCUSSING that part of the House Purchase and Housing Bill which amends the laws relating to existing improvement grants for dwellings, MR. HENRY BROOKE, the Minister of Housing and Local Government, said in the House of Commons on February 18 that the object of the clause setting out the conditions to be observed was to encourage and speed the giving of improvement grants. The House, sitting in committee, spent a third day on the Bill and concluded the committee stage.

Mr. Brooke reminded MPs that when improvement grants were enacted in the 1949 legislation, the restrictions imposed by Parliament were found to be so severe that for some years very few improvement or conversion grants were applied for or made. The conditions were substantially loosened in the 1954 Act and from that time until now improvement and conversion grants had been made at the rate of between 30,000 and 40,000 a year.

Experience had shown that there were certain conditions in existing legislation which discouraged applicants for improvement grants. The Government, he said, were accordingly proposing that it should be possible for a man who had improved his house with the benefit of grant to sell after the expiry of three years, without the necessity of repayment of grant, if the house thereafter was no longer kept available for letting.

There was also evidence that mortgagors had found it difficult to get building societies from whom they had received mortgage advances, to agree to their applying for improvement grants. That was because, from the point of view of the mortgagee who had made the advance, any conditions attaching to the sale of the house thereafter were important. The situation might arise where the morgagee, if the mortgagor fell down on his payments, was taking over a house the further disposal of which might be difficult because of these restrictive conditions. The Government had all this in mind and came to the conclusion three years was a reasonable limit. Five years was needlessly long.

Mr. Brooke later went on to say: 'One of the disappointing things about improvement grants so far is the slowness with which they have been taken up by landlords for the benefit of rented property.' Almost all the improvement grants applied for and taken up by house owners, as distinct from local authorities, had been taken up for owner-occupied houses, he explained. This was a fact to which, in the Government's view, Parliament should properly pay attention, because the improvement grant system should ideally operate just as much for the benefit of those living in rented houses as for those who were owner-occupiers.

Mr. Brooke added that he believed there would be a considerable increase in the number of grants. The Government were dead keen to make sure that houses were modernised.

The clause was agreed to.

In a brief debate on the clause providing for contributions to local authorities in respect of standard amenities provided by them, Mr. Brooke said that if there was a case where a room was unfit and was closed, nevertheless a grant could be made for the improvement of the rest of the house provided that the rest of the house consisted of a dwelling by itself and was sufficiently large and could be made a satisfactory dwelling without using the closed part.

He wanted to make sure that the Bill was administered reasonably. He did not want to deny local authorities grants that they might reasonably think they were qualified for.

After further discussion the clause was agreed to.

LIBRARY BUILDING RECOMMENDATIONS

'TO meet the need for considerable improvement in public library premises and for many new library buildings, a higher priority be given as soon as possible by the central government and library authorities to capital expenditure on premises and equipment for public libraries.'

This is one of the recommendations in a report on public libraries presented to Parliament as a White Paper on February 13. It is the report of a committee appointed in 1957 as part of the review of areas and functions of local government.

The report commented that most urban libraries were housed in buildings 50 or more years old, often inadequate and ill-suited for present-day needs. County libraries had been hampered by recurring restrictions upon capital expenditure and there had been few periods since 1927 during which substantial expenditure on library building has been undertaken.

In 1938-39 capital expenditure of local authorities on public libraries and museums was £462,000 out of £150m., a mere .31 per cent but in 1955-56, the expenditure was £711,000 out of £541m. or .13 per cent, a much lower figure in real terms and a 'pathetically small part' of the total expenditure of local authorities. Since 1956 capital expenditure by local authorities on public libraries had been discouraged by the Government. Owing to post-war economic difficulties, expenditure on public library buildings and equipment had been regarded as of secondary importance.

What capital expenditure had been possible had usually been designed either to repair the most serious omissions in the service by providing branch libraries for larger housing estates or New Towns or to replace premises which could no longer be tolerated.

The report continues: 'Considerable sums of public money have, however, been spent during this period on university, school and technical college libraries, and we hope that times will soon be regarded as favourable for a significant advance in the improvement of existing public library buildings and in the provision of new libraries. More and better buildings for public libraries are

needed, and they will only be achieved if the central Government and the library authorities are prepared to give the necessary capital expenditure a much higher priority than it has so far received.'

EXEMPTION FOR LONDON

When the Standing Committee considering the Factories Bill met again on February 12, MR. REYNOLDS moved an amendment providing that nothing in the clause dealing with prevention of fire or in the regulations made under the clause, should apply to any factory or part of a factory to which the provisions of the London Building Acts (Amendment) Act, 1939, applied.

He said that under that Act the London County Council already had stringent control over the erection or use of buildings for warehousing, manufacturing or other trade purposes where the building was in excess of 250,000 cu. ft., or more than 80 ft. high. He was sure that Act had worked well in the London area. It includes control of materials used in construction and of internal finishes. The facilities had to be approved by the county chief fire officer for fire fighting and fire prevention.

The aim of the amendment was to allow the county council to use local Act powers, leaving the provisions of the Factories Bill to be used by the LCC in respect of buildings which did not fall within the provisions of the local Act. The LCC was satisfied with the provisions of the local Act and those who had to work with the LCC in respect of these buildings had no objection to them.

MR. RICHARD WOOD, Parliamentary Secretary, Ministry of Labour, said the Minister and he agreed that what was done under the Bill should not conflict with what was done under the London local Act and other local Acts. He thought there were similar provisions in other local Acts and it would be difficult to deal with the London Act without dealing with the others as well. The regulations the Minister could make under the clause could be so made as not to apply to particular classes of factories. The Minister could therefore exempt the factories which Mr. Reynolds had in mind.

He would give the assurance that any regulation under this clause would not conflict with action taken under the London Act. He would also consider the best way of meeting the point raised.

The amendment was withdrawn.

When asked how the Minister would proceed to make the necessary regulations and with whom he would consult, Mr. Wood said it had been made clear that the job of framing the regulations would be very difficult because of the great variations between the size and kind of general features of different factories. The Ministry were not complacent and realized it was going to be difficult work. They had first to follow the recognized procedure for making special regulations. There was ample opportunity for making objections to the regulations which were made. Broadly, the Minister intended to consult with anyone whom he believed had valuable advice to offer. He clearly had in mind fire authorities, trade unions, employers, insurance companies, technical institutions, other Government Departments and makers of fire fighting equipment. Although the list was not intended to be exhaustive he hoped it showed that the Minister's consultations would be real ones.

The clause was agreed to.

OTHER BUSINESS

Link with Continental Grid

SIR ALFRED BOSSOM asked the Paymaster General, on February 4, to what extent the question of a connection with the continental electric grid had been discussed with local authorities of Kent; and how far the local authorities indicated satisfaction.

SIR IAN HOROBIN (Parliamentary Secretary, Ministry of Power) wrote in reply.—'The local authorities of Kent were not consulted about the principle of a connection between the British and Continental grid systems or about the route chosen for the under-water cable which was dictated by technical and economic considerations. The siting of the works required on this side of the Channel, namely a sub-station and certain overhead transmission lines has, however, been the subject of two public inquiries at which the views of the Kent County Council, and of a number of borough, rural district and parish councils were fully deployed. The reports of the Inspectors who held these inquiries are now before the Minister of Housing and Local Government and the Minister of Power, who are considering whether or not to give consent to the construction of the proposed works. In these circumstances I would prefer not to attempt a summary of these views which could be regarded as misleading, but I would assure Sir Alfred Bossom that they will be fully taken into account by the two Ministers in arriving at their decision.'

Ordnance Survey Maps

SIR ALFRED BOSSOM asked the Minister of Housing and Local Government whether he would give consideration to any restrictions on land being printed on the Ordnance Survey maps to avoid the confusion that frequently occurred when purchasers of land subsequently found its proposed development was strictly limited, or even impossible.

MR. BEVINS, in a written reply on February 3, said.—'The Minister fears that this might do more harm than good because people might easily be misled by an Ordnance Survey map which, in relation to planning, might be out of date. The only reliable way for a prospective purchaser of land to find out about restrictions on development is to ask the local planning authority.'

Factories in Development Areas

MR. SYDNEY SILVERMAN asked the President of the Board of Trade how many factories the Government expected to have built in areas covered by the Distribution of Industries Act, 1958, by October 31, 1959.

MR. JOHN VAUGHAN-MORGAN, Minister of State, Board of Trade, wrote in reply on February 17: 'Between June 30 last, when the Distribution of Industry (Industrial Finance) Act, 1958, came into force, and October 31 next we expect to have completed three factories and 11 extensions in those parts of the scheduled development areas to which that Act applies.'

Aid for New Factories

MR. MICHAEL CLARK HUTCHISON asked the Chancellor of the Exchequer on February 12 whether he would make a statement about the possibility of restoring the facilities for provision of factories which were formerly made available in certain areas through the development fund.

MR. ERROLL, Economic Secretary to the Treasury, wrote in reply:—'Up to last summer, when provision for alternative forms of assistance was made by the Distribution of Industry (Industrial Finance) Act, 1958, the Development Fund was available to assist the building of factories for letting or sale in North-West Wales (including Anglesey), the Crofting Counties of Scotland, and the Buckie-Peterhead district. It has now been decided to restore these facilities to the areas named. The possibility of obtaining financial assistance under the Distribution of Industry (Industrial Finance) Act is still open to undertakings in these areas. The new arrangements will not in any way affect the role of the Development Fund in those areas where depopulation is the main problem.'

Cost of Underground Cables

SIR ALFRED BOSSOM asked the Paymaster General, in view of his responsibilities concerning schemes for putting major electric cables underground, what was now the difference in cost between putting them underground or carrying them on pylons across the countryside as was now the custom.

SIR IAN HOROBIN, Parliamentary Secretary, Ministry of Power, wrote in reply on February 3: The comparison is: 275 kV standard super grid line: overhead line, £25,000 a mile; underground cable, £300,000-£400,000 a mile. 132 kV standard grid line: overhead line, £10,000 a mile; underground cable, £50,000-£80,000 a mile.

Costs vary according to the sizes of conductors and types of construction used. Underground cable laying costs are particularly affected by different local conditions. In the case of the super-grid, where the cost shown is an estimate, undergrounding would also present serious technical difficulties.

Tendering Procedure

SIR ALFRED BOSSOM asked the Minister of Works if he would recommend to all other Ministers whose Departments required buildings to be constructed for them in built-up areas of Great Britain, that they would gain substantially in price and also in time of construction, if they would require that, before inviting competitive tenders, every drawing needed to complete the work, including the full-size drawings, as well as complete specifications, also the complete bill of quantities, so that no prime cost sums were required, should be given to the contractors before submitting their estimates.

MR. HUGH MOLSON, in a written reply on January 30, said.—'It is a part of the Government's policy of fixed price tendering, which all departments have operated since April, 1957, that projects should be fully planned before tenders are invited and prime cost items reduced to a minimum. The undoubted benefits of this policy are well known to departments and to local authorities. I understand that the great majority of suitable contracts let by Government

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departments, local authorities and the nationalised industries are of this character. I hope the advantages of this kind of tendering is becoming more generally recognised by private building owners.'

New London Tube

MR. ERIC FLETCHER asked the Minister of Transport, on February 4, whether he would expedite the plans for the construction of the proposed new Victoria tube to serve North London.

MR. HAROLD WATKINSON: This project raises difficult financial problems, and it has not been possible so far to find room for it within the British Transport Commission's total capital expenditure. I recognise, however, that it would make a valuable contribution to London travel, and intend to keep it under review with the Commission. He added that it would cost £55m. to construct and lose £3m. a year.

When MR. E. DAVIES said that the cost of building would be recouped in a few years in the form of savings caused by avoiding the delays which now caused so much loss, the MINISTER said the question to be decided, and upon which he wished to take the advice of the London Travel Committee, was whether the £55m. would pay a better dividend were it spent on off-street parking or some other project.

Farm Buildings Survey

MR. FREDERICK WILLEY asked the Minister of Agriculture, Fisheries and Food, as representing the Lord President of the Council, what progress the Farm Buildings Research Committee had made; and when it would make recommendations.

MR. JOHN HARE wrote in reply on February 12:— 'As I explained in the reply I gave on November 20, 1958, the Committee is engaged on its essential preliminary tasks. That of collating all the relevant information of research carried out both in this country and abroad is almost complete. The survey of farm buildings is proceeding according to plan and the whole country should be covered in two years.'

New Town, Aden

MR. SORENSEN asked the Secretary of State for the Colonies on February 12 when it was anticipated that operations would begin for the projected new town in the Aden Protectorate; and to what extent the Protectorate rulers would be co-operating in its implementation.

MR. AMERY, Under-Secretary, Colonial Office:—'The new Federal Government will shortly start to build its administrative headquarters. The initiative in this lies with the Federal Government, though it can of course rely on the help and advice of the Governor of Aden Protectorate.'

Building for the Services

The Defence White Paper, *Progress of the Five-Year Defence Plan,* published on February 10, stated that good progress was being made with the improvement of the living conditions of the forces at home and overseas. The building programme for the Services in the United Kingdom, estimated to cost about £90m. over five years, was now well under way.

A large number of new building projects and improvements were going ahead for all three Services. More than 1,000 houses for married men had been completed during the past 12 months and it was planned to start on a further 4,000 during the coming year.

Overseas the construction of modern barracks and houses was continuing. Work would start this year on new accommodation for the Army in Kenya and Aden, including new schools. In addition, about £1m. would be spent during the coming year on improving accommodation and amenities in Cyprus.

Permits for Building

SIR ALFRED BOSSOM asked the Minister of Works if he would investigate the present system of granting the many permits required for all building work, and ensure that all permits were handled at one time through the co-operation of all the different authorities concerned, so as to save time and money in the completion of all new buildings.

MR. BROOKE, Minister of Housing and Local Government, who answered in a written reply on February 2 said: 'The present system has been thoroughly examined on a number of occasions to see if it could be simplified in the way suggested. The difficulty is that different permits are required for different purposes; developers may want them at different times, and some are required for certain types of building only. I do not think that it would be practicable to amalgamate them in the manner suggested, or that in the majority of cases this would make for greater convenience.'

Bridges over Railways

MR. STRAUSS asked the Minister of Transport on February 2, whether he would now make a statement about the relief the Government proposed to give to the British Transport Commission for their inherited liability for road bridges over railways, and level crossings.

MR. HAROLD WATKINSON wrote in reply:—'The views put to me by the British Transport Commission on this subject have been carefully considered. To change the present arrangements will, however, require legislation. Meanwhile the Government propose as an interim measure to make a payment of £1m. for the second half of 1958 and £2m. in 1959 as a contribution towards the Commission's expenditure on these liabilities. Parliamentary authority for the payment of £1m. this financial year is being sought by supplementary estimate.'

Scottish Projects Approved

MRS. JEAN MANN asked the Secretary of State for Scotland, on February 3, what survey he had made, or what instructions he had given, regarding plans that would help to relieve unemployment in Scotland, particularly with respect to expansion of works by local authorities or nationalised industries.

MR. MACLAY: I have been in touch with local authorities and other public bodies in Scotland with a view to bringing forward to this year capital projects which under previous plans would not have started till later. As a result I have so far approved projects estimated to cost about £6.5m. Work has started on some and will start on others as soon as possible.'

Marlborough House

THE PRIME MINISTER announced on February 17 that the Queen had graciously offered to place Marlborough House at the disposal of the Government for use as the Commonwealth centre in London. He said that no major structural alterations would be needed. Some adjustment and modernisation would, however, be required to adapt the building to its new purpose, and new furnishings and equipment would need to be installed. This must take some time to complete.

It is understood that work may not be completed for about two years and it is roughly estimated that about £200,000 might have to be spent. The cost and maintenance of Marlborough House will be borne on the Votes of the Ministry of Works.'

Atomic Power Stations

MR. NABARRO asked the Paymaster-General on February 16 how many atomic power stations were now under construction and where; how many more were planned for commencement before 1965 and where.

SIR IAN HOROBIN, Parliamentary Secretary, Ministry of Power: 'It is not expected that the nuclear power programme up till the end of 1966 will require more than 12-14 stations. Four of these are under construction at Bradwell, Berkeley and Hinkley Point in England and at Hunterston in Scotland. Consent has been given for a further station at Trawsfynydd in Merioneth and applications for consent to build stations at Dungeness in Kent and Sizewell in Suffolk have been submitted to the Minister of Power. The electricity authorities are looking for further sites for stations in the current programme, and I cannot say how many additional sites may be required before the end of 1965 for stations due to commission after 1966.'

Soil Corrosion Research

MR. ROBERT JENKINS asked the Parliamentary Secretary to the Ministry of Works, on February 3, what progress had been made in predicting whether the soil at any proposed building site was likely to be unduly corrosive to buried metal and pipe work; and what station of the Department of Scientific and Industrial Research was prepared to give advice on this matter.

MR. HARMAR NICHOLLS.—'Considerable progress has been made. Prediction is not a simple matter because it involves bacterial examination as well as chemical analysis of soils, and requires a close acquaintance with the influence of bacteria on the corrosion of metals. The National Chemical Laboratory can provide such a service. For example it has made a soil examination recently for the UK Atomic Energy Authority at their Winfrith Heath site, in Dorset.'

When MR. JENKINS asked if it was becoming customary for this advice to be sought, MR. NICHOLLS replied.—'Yes it is, but at the moment people seek advice after they have found corrosion has taken place. We hope people on important projects will realise this information is there before they insert pipes into the ground. This information can be given beforehand in assisting them as to the type of metal they should be using.'

The Builder

CURRENT PRICES OF MATERIALS

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AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	4	5
Pit Sand	"	1	2	8
Washed Sand	"	1	5	9
¾ in. Shingle	"	1	3	3
¾ in. Broken Brick	"	1	0	9
Pan Breeze	"		17	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	5	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	12	0
1 to 6 tons, site	"	6	4	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	"	6	2	6
1 to 6 tons do. site	"	6	14	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	"	8	12	0
Other colours according to colour.				
In 4-ton lots from 310s.0d. to 780s.0d. per ton				
White Portland Cement	"	13	17	6
Under 1 ton	per cwt.		16	11
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	4	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 10s. 0d. to £14 5s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	"	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	9	0

BRICKS

		£	s.	d.
Full Loads.				
First Hard Stocks	per 1,000	14	14	6
Second Hard Stocks	"	13	8	6
Mild Stocks (Kiln Burnt)	"	9	10	0
Mild Stocks	"	9	5	0
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2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	"	5	18	0
Cellular Commons	"	5	18	0
Keyed do.	"	6	0	0
Rustics	"	7	10	0
Cellular Rustics	"	7	10	0
Single Bullnose Commons	"	7	12	6
Sandfaced	"	8	10	0
Tuscans	"	9	5	0
Saxons	"	9	13	0
Golden Buffs	"	10	0	0
Dapple Light Facings	"	10	7	6
Heather Facings	"	11	3	0
Best Blue Pressed Staffs (London stations)	"	31	2	6
do. do. (London sites)	"	31	3	0
do. Bullnose (London stations)	"	31	16	6
do. do. (London sites)	"	30	17	6
Blue Wire Cuts (London stations)	"	26	19	0
do. do. (London sites)	"	26	19	6
Midhurst Lime Bricks (London sites)	"	10	15	6
Uxbridge Whites (London sites)	"	10	2	0
Special Purpose Sandlime Bricks (London sites)	"	7	18	6
2½ in. Best Stourbridge Fire Bricks (London stations)	"	30	12	3
2½ in. do. do. (London sites)	"	31	1	0
3 in. do. do. (London stations)	"	36	14	9
3 in. do. do. (London sites)	"	37	5	3
2½ in. Moler Flue Bricks (London sites)	"	33	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	per 1,000	16	11	0
2½ in. Machine-made Multi Red Facings (London sites)	"	16	16	0
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	16	16	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	17	11	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	"	19	3	6
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	"	19	3	6
Rubber Bricks for gauged arches (London sites)	"	47	11	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	14	4	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	16	0	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

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*4 in. (6 cavity)	90 yds.	"		6	10
6 in. (8¾ in. × 5½ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

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2 in.	100 yds.	per yd. sup.		3	6
2½ in.	85 yds.	"		4	2
3 in.	75 yds.	"		4	10
4 in.	55 yds.	"		6	2
Cranham Terra Cotta					
2 in.		"		6	9
2½ in.		"		7	5
3 in. Load bearing quality		"		8	9
4 in. do. do.		"		10	9
4½ in. do. do.		"		11	6
Moler Partition Blocks					
2 in.	150 yds.	"		15	0
2½ in.	120 yds.	"		15	3
3 in.	100 yds.	"		15	6
4 in.	90 yds.	"		19	0
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture					
2 in.	100 yds.	per yd. sup.		5	8
2½ in.	80 yds.	"		6	5
3 in.	65 yds.	"		7	5
4 in.	50 yds.	"		9	4
4½ in.	44 yds.	"		10	2
6 in.	33 yds.	"		13	5
Thermalite-Ytong Partition Blocks					
2½ in.	144 yds.	"		7	0
Thermalite-Ytong Load-bearing Insulating Blocks					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	"		11	0
5 in.	72 yds.	"		13	9
6 in.	60 yds.	"		16	6
8½ in.	42 yds.	"	1	3	8
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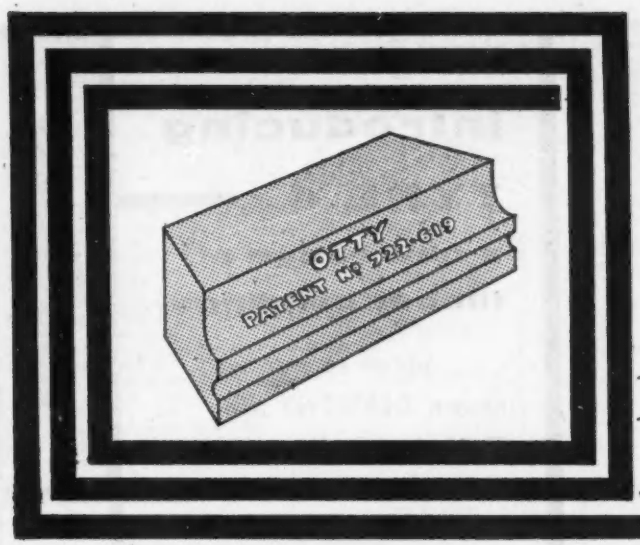
4 in.		"	36	10	0
5 in.		"	43	15	0
6 in.		"	49	19	0
7 in.		"	61	8	0
8 in.		"	71	9	0
9 in.		"	79	3	0
10 in.		"	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:					
12 in. × 3 in. × ½ in.		"	42	15	0
12 in. × 4 in. × ¾ in.		"	73	15	0
10 in. × 5 in. × ¾ in.		"	73	15	0



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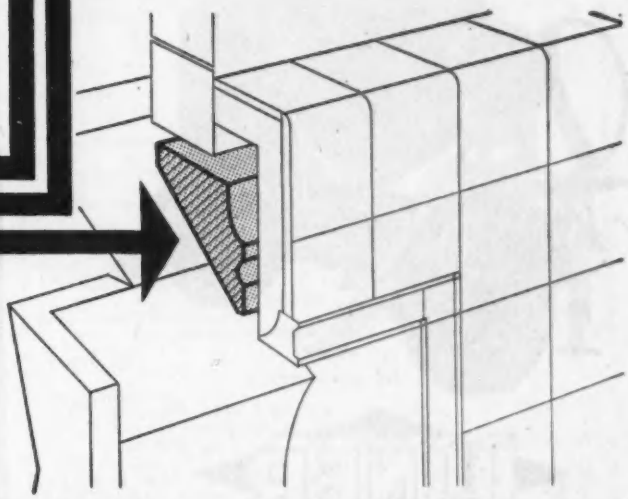

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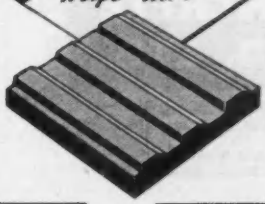

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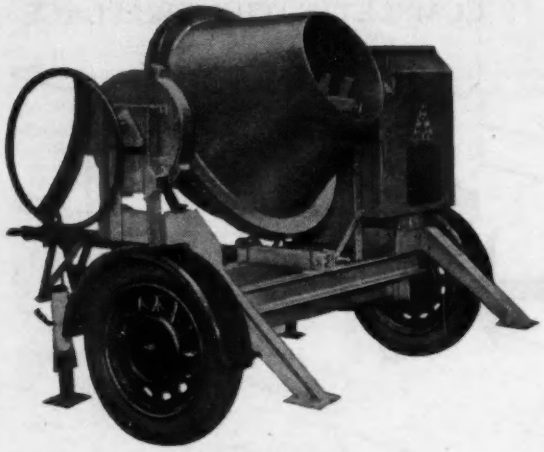

LINER

TRAILEX JUNIOR

3½ T MIXER

Petrol or diesel engine driven . . . gives a perfect mix — with an unmixed batch capacity of five cubic feet, and an output of up to twenty batches per hour. Never idle, fast towing from site to site. Non-towing models in 3½T and 5T sizes on steel or pneumatic tyred wheels. Petrol or diesel engine driven.

HIRE PURCHASE TERMS . . . ONLY 10% DEPOSIT

Please send full details of items marked "X"

○ JUNIOR MIXERS ○ CADET MIXER ○ HOPPER FED T.D. MIXERS
○ ROUGHRIDER DUMPER ○ NIPSKIP ○ HYDRAULIC NON-TILT MIXERS
○ SLAB BLOCK & BRICK MACHINE ○ CUMFLOW MIXER ○ PORTASAW

NAME .....

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.....

THE LINER CONCRETE MACHINERY CO. LTD.

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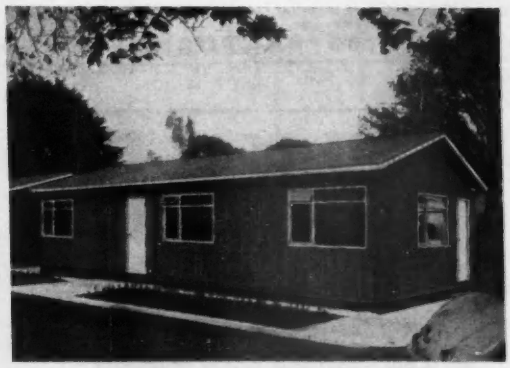
TYPE 4

a new range of timber buildings . . .

. . . added to our well known DERWENT and TYPE 6 systems of component construction. TYPE 4 is low in cost, immediately available 'off the shelf,' and capable of speedy erection



Designed to answer many requirements, including Offices, Dormitories, Club Rooms and Pavilions. TYPE 4 can be supplied completely transportable with 100% recoverability. Write for illustrated Brochure, Design Sheet and Price List.

VIC HALLAM LTD

TIMBER BUILDINGS DIVISION

LANGLEY MILL · NOTTINGHAM

TELEPHONE: LANGLEY MILL 2301-7

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−22½%	−5%	List price
BSS Best Quality...	+10% −22½%	+10% −5%	+10% list price
Tested Quality ...	+37½% −22½%	+37½% −5%	+37½% list price
BSS Tested Quality	+47½% −22½%	+47½% −5%	+47½% list price

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	10	6
4 in. do. do.	,,	15	3	6
6 in. do. do.	,,	31	9	0
9 in. do. do.	,,	59	13	0

DAMP COURSE

Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.	3	2	
Asbestos base do. 7 lb. per yd. sup. do. do.	,,	5	2	
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,	12	2	
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

Bath Stone—				
Monks Park...	per ft. cube	9	7	
St. Aldhelm Box Ground	,,	10	10	
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,	10	2	
Beer Stone. Delivered London area	,,	9	0	
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,	9	2	
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stooled cills	per ft. cube	4	1	9
12 in. × 6 in. do. do. do.	,,	2	18	3
12 in. × 3 in. Plain coping, twice throated	,,	2	5	3
12 in. × 3 in. Weathered and twice throated coping	,,	3	0	3
14 in. × 6 in. do. do. do.	,,	2	14	3
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	8	6
3 in. sawn two sides Slabs, random sizes	per ft. sup.		8	8
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	9	9
do. do. fair one edge for fair faced brickwork	,,	1	15	3
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		10	6
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	15	6
12 in. × 6 in. Plain Steps, rubbed top and front ...	,,	2	8	6
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		9	9
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	8	6

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district	62	0	3
Hand-made 10½ × 6½ tiles Berkshire district	15	15	0
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

Softwood—				
Joinery quality	Ex Wharf per standard	£110 to £135		
Carcassing quality	do. ,,	£92 — £95		
1 in. Tongued and Grooved Flooring	do. ,,	£106	0	0
Hardwood—				
Mahogany—African S.E.	do. per ft. cube	1	10	0
do. Honduras S.E. ...	do. ,,	3	5	0
Oak European S.E.... ...	do. ,,	2	5	0
do. Japanese S.E.	do. ,,	2	10	0
do. English Logs sawn ...	do. ,,	2	0	0
Teak 8 in. average S.E. ...	do. ,,	3	17	6
Walnut African Logs sawn ...	do. ,,	1	5	0

DOORS (in Lots 1-11)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.	6	2	
1½ in. do. (67 yds. to 1 ton)	,,	8	0	
2 in. do. (52 yds. to 1 ton)	,,	9	9½	
2½ in. do. (45 yds. to 1 ton)	,,	11	3	
3 in. do. (39 yds. to 1 ton)	,,	12	7½	
Quantities under 1 ton add 1d. per ½ in. of thickness.				
¼ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	,,	2	0	0
5/16 in. do. do.	,,	2	17	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
⅛ in. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in. plain cut to lengths delivered London area	per ton	48	15	6
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	49	15	6
Steel tees average price	,,	50	15	6
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	69	10	0
Compound girders	,,	75	0	0
Stanchions	,,	80	0	0
Compound stanchions	,,	85	0	0
In Roof Work—Trusses and Purlins	,,	95	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅜ in. do.	,,	1	10	0
¼ in. and ⅜ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−40½%	−42%	Light −26½%	Malleable List
Medium	−36½%	−38%	Heavy −23%	−20% + 40%
Heavy	−28½%	−30½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−20%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/9½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts. :	cwt.	qt.	lb.	per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj. ...	,,	3/7	4/8	5/2	7/3
do. 6 in. do. ...	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths ...	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	8	0
Mild Steel Hoops	45	7	6

	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	62	7	6
24 gauge	64	17	6
26 gauge	67	17	6
Galvanised Corrugated Sheets, 6 ft. to 9 ft. :			
20 gauge	69	3	0
24 gauge	72	13	0
26 gauge	77	18	0
Galvanised Flat Sheets C.R. and C.A. :			
20 gauge	70	13	0
24 gauge	74	3	0
26 gauge	79	8	0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.		2	10½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)...	,,		2	8
Coiled strip BS 1470 S1C 18 SWG (24 in. wide) ...	,,		2	9½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,		2	7½
Coiled strip for flashing, 99·7% purity, 22 SWG (12 in wide)	,,		3	0
Corrugated sheet BS 1470 NS3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	12	0
Corrugated sheet BS 1470 NS3 Utility Industrial Profile 8 ft. × 31½ in. × 20 SWG	,,	1	17	6
Corrugated sheet BS 1470 NS3 Utility Mansard Profile 8 ft. × 31½ in. × 20 SWG	,,	1	11	2
Extruded section BS 1476 E1C simple moulding ...	per lb.		2	8½
Extruded section BS 1476 E1C 1 in. diam. round...	,,		2	6
Extruded section BS 1476 HE1WP simple angle ...	,,		2	11½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,		2	10½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,		4	4½
Tubing BS 1471 HT10WP 1½ in. O/D × SWG ...	,,		5	9

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves ...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws...	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1½ × 6 lb.	1½ × 6 lb.		2 × 7 lb.		3 × 7 lb.
Lead P. trap with brass cleaning screws	64/10	81/–		129/6		221/6
Lead S. trap do. do.	78/6	97/3		159/6		286/3

Solder :			s.	d.
Plumbers'	1 cwt. lots	14 lb. lots per lb.	3	5
Tinmen's	,, ,, 394/–	,, ,, ,,	4	0
Blow pipe	,, ,, 397/–	,, ,, ,,	4	2

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 27½d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	43	Approx. per ft.	11½
¼ in. × 19 ,,	13½	,, ,,	41½	,, ,,	16
1 in. × 18 ,,	12½	,, ,,	39½	,, ,,	24½
1¼ in. × 18 ,,	11½	,, ,,	39½	,, ,,	29½
1½ in. × 18 ,,	11½	,, ,,	39½	,, ,,	35½
2 in. × 17 ,,	13½	,, ,,	40½	,, ,,	57

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	,, 1d. ,,
2 cwts to 1 cwt.	,, 2d. ,,

		£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	per ton	261	0	0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7	5	0
,, ,, 12 gauge (23 SWG), ,, ,, ,,	,,	7	2	6
,, ,, 14 gauge (21 SWG), ,, ,, ,,	,,	7	1	3

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	1	10¾

LEAD SHEET AND PIPES

Basis selling price in minimum 1-ton delivery to one address in London or Home Counties :

		£	s	d
Lead Sheet, English, 3½ lb. substance and upwards...	per ton	110	0	0
,, Water Pipe, in coils	,,	112	5	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia. ...	,,	113	15	0
,, ,, ,, over 4 in. dia.	,,	115	15	0
,, Gas or Untinned Compo pipe	,,	113	15	0
Extras over Basis for quantities under 1 ton :				
5 cwt. and under 1 ton	per cwt.		2	0
3 cwt. do. 5 cwt.	,,		4	0
1 cwt. do. 3 cwt.	,,		6	0

Smaller quantities than 1 cwt. priced specially.

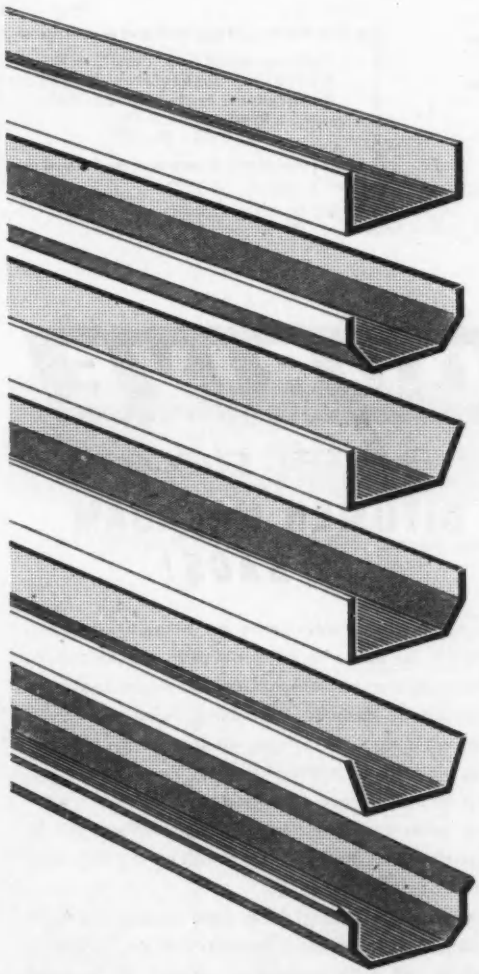
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £61 15s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£	s.	d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8	4	6
do. White do. do. do.	,,	8	14	0
Sirapite Coarse BSS 1191 Class C do.	,,	8	15	9
do. Fine do. do. do.	,,	9	3	3
do. Browning BSS 1191 Class B do.	,,	8	15	9
do. Board Finish do. do.	,,	8	15	9
Blue Lias Lime, in 6-ton loads	,,	6	14	6
Hydrated Lime (Grey), in 6-ton loads...	,,	5	5	0
do. (White) do.	,,	6	0	0
Lump Lime (Grey) do.	,,	5	7	0
do. (White) do.	,,	5	14	6
White Keen's or Parian Cement, in 1-ton loads ...	,,	11	19	3
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	11	14	0
Granite Chips, in 6-ton loads	,,	2	8	6
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.		2	5
1,200 yds.	,,		2	4
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		3	0
1,200 yds.	,,		2	11½
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		2	8
1,200 yds.	,,		2	7
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		3	3
1,200 yds.	,,		3	2½

Where DURABILITY is Vital



Out of sight, yet playing an important part in the protection of a building and its contents, roof gutters must be robust and dependable. Produced by specialists in the fabrication of steel, 'Harco' Pressed Steel Gutters conform to B.S. 1091/1946. They are made in standard sizes or to special girths and lengths to meet specific requirements, with pressed socketed joints or butt straps. Supplied self-colour, in painted finish or hot-dip galvanized after manufacture by the 'Harco' process.

'HARCO'

HEAVY GAUGE PRESSED STEEL

GUTTERS

Please send for List No. B942

Harvey

G. A. HARVEY & CO. (LONDON) LTD., WOOLWICH ROAD, LONDON, S.E.7. GREenwich 3232 (22 lines)

HT/3

HERE'S THE TRUE COST OF NOT USING DENSO

Here are two pieces of pipe which were buried side by side for *twenty years* in the same corrosive soil. But what a difference! One, wrapped in DENSO, is fit for another twenty years. The other, without DENSO protection, is bound for the scrapheap.

Wasted time, trouble, labour and material—*this* is the true cost of *not* using DENSO.

DENSO PROTECTION *REALLY* PAYS!

Visit our Stand Nos. 1 and 2 at the Corrosion Exhibition, Royal Horticultural Society's New Hall, Westminster S.W.1. April 27 - 30 1959

WINN & COALES LTD., Denso House, Chapel Road, London, S.E.27
'Phone: GIPsy Hill 4247 *'Grams: Denselte, Westnor, London*
Northern Area Headquarters, Denso House, Glebelands Road, Sale, Cheshire. *'Phone: Sale* 8271

AN IMPORTANT **NEW** DEVELOPMENT OF SPECIAL INTEREST TO THE BUILDING AND HARDWARE TRADES

Photograph of a drive laid with Durive and topped with Durite chippings

DURIVE

-a great success

BITUMEN MACADAM *IN BAGS!*

All over the country people are discovering how easy it is to lay their own drives and paths with Durive.

Durive is so much quicker, easier and cleaner to use than old-fashioned methods. No mixing, heating or special equipment is required—you just tip it out of the bag, rake it level and roll it firm. The job is done! You can walk on it, drive a car on it as soon as it is laid!

Durive forms a hard-wearing macadam surface with an attractive speckled finish and can be laid on any firm foundation or existing surface.

Durive is the ideal material for all those building and repair jobs that require individual quantities of macadam in a convenient and easily usable form. Durive can be stored under cover for several months.

Widely used in America, Durive was perfected in this country after intensive research and trials.

- **The remarkable new American way for laying garden paths and drives**
- **Outdates all other methods**
- **Ideal for the man who does-it-himself**

Please write to us for further details:

KENT TARMACADAM CO. LTD
NEW DOVER ROAD · CANTERBURY · KENT
Telephone Canterbury 3211
A subsidiary of Robert Brett & Sons Ltd.—the manufacturers of Durite

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	12	0
Super Snowcem cement paint (in 1 cwt. drums)	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	15	0
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	14	0
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		17	0
Boiled Linseed Oil (5 gal.) do.	,,		17	6
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	0
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.				
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oak Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	6	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	18	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	17	0
Knotting (1 gal. bottles free)	,,	2	8	0
French and Brush Polish (do.)	,,	2	2	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality—Cut Sizes	per ft. sup.		9
24 oz. do. do. do. do.	,,		10½
26 oz. do. do. do. do.	,,	1	1½
32 oz. do. do. do. do.	,,	1	5½
¼ in. Rolled Plate	,,	1	1½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5½
¼ in. Figured Rolled and Cathedral, Standard patterns—		s.	d.
White Group 1	per ft. sup.	1	1½
do. Group 2	,,	1	4½
do. Standard Tints	,,	1	10
do. Special Tints	,,	6	8
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	6
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 5¾ × 5¾ × 3¾ in.	each	3	3
P.B.3 7¾ × 7¾ × 3¾ in.	,,	5	0
P.B.32 7¾ × 7¾ × 3¾ in.	,,	5	0
Radiused Corner Blocks to match up with—			
P.B.2	,,	6	0
P.B.3	,,	7	6
P.B.32	,,	7	6
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	3
,, ,, ,, 5 ft. sup.	,,	5	3
,, ,, ,, 45 ft. sup.	,,	6	3
,, ,, ,, 100 ft. sup.	,,	6	9
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	0
Not exceeding 180 ft. sup. or do.	,,	13	4

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.
The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,,	2,000		8½
26 oz. ,, ,,	2,000		10¾
32 oz. ,, ,,	2,000	1	1½
¼ in. Rolled Plate	1,000		9½
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		9½
do. Group 2	1,000	1	0½
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	1½
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

The Builder

CURRENT RATES OF WAGES

AS FROM FEBRUARY 2, 1959. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A1
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A1
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A1
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A1
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A1
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishop's Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A1
Bridgnorth MB	A1
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A1
Caernarvonshire, Cnty. of	‡A1
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A1
Carmarthenshire, Cnty. of	‡A1
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A1
Deal	A1
Denbigh Town	A1
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD (part—Airmyn, Hook)	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hurstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A1
Llangollen	A1
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A1
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A1
Monmouthshire	A1
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A1
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire (except Milford Haven)	A1
Penmaenmawr	A1
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A1
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A1
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull UD	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
,, North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland (except Kendal)	A1
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A1
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A1
Wisbech	A1
Witham	A1
Withernsea UD	A1
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

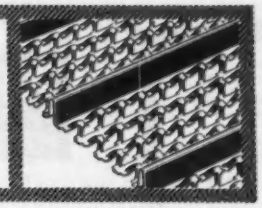
* For Birkenhead, Liverpool and London the rates are:— Craftsmen 4s. 10½d. ; Labourers. 4s. 4d. In the case of London the rate beyond the 12-mile radius is: Craftsmen 4s. 10d. ; Labourers, 4s. 3½d. † Plus 2d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops, receive 2d. per day ; when employed on other building industry work, 4d. per day

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s 10½d. per hour Women engaged on work other than craft processes, 3s. 6½d. per hour.

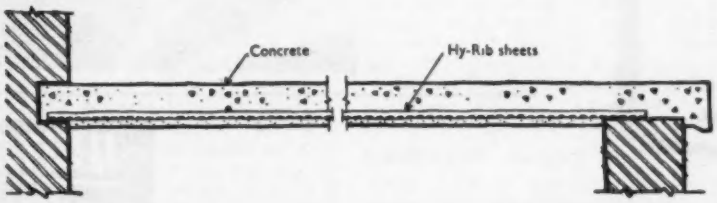
For Building Trade Wages in Scotland see page 433.

HY-RIB



A MULTI-PURPOSE MATERIAL

strong, simple, economical

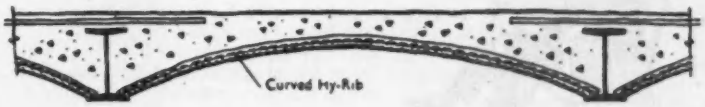


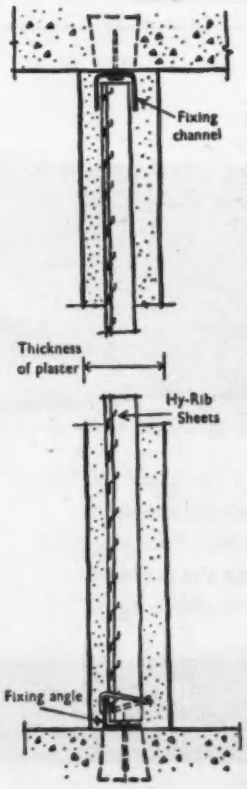
FLOOR AND ROOF SLABS

Hy-Rib is a combined centering and reinforcement that eliminates close-boarded shuttering and provides an excellent key for plaster on the soffit.

ARCHED FLOORS

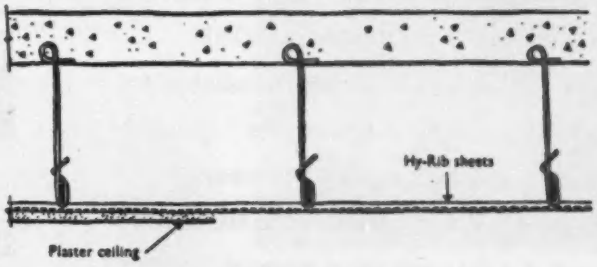
Hy-Rib acts as permanent shuttering for bridge decking, warehouse floors and other industrial buildings; and provides a key for rendering the soffit where this is required.





PARTITIONS

Hy-Rib with metal lathing plaster on each face offers a thin partition, free from cracks and highly fire-resistant, from floor to ceiling. Thinness and fire resistance make Hy-Rib especially suitable where space is limited.



LONG-SPAN SUSPENDED CEILINGS

Hy-Rib with three coats of plaster gives an unbroken surface, accurate alignment and a high fire-resistance. Hy-Rib makes possible curved ceilings with a minimum of special framing.

PRICES per sq. yd.

DELIVERED TO SITE IN ENGLAND, SCOTLAND OR WALES

THERE IS A SMALL EXTRA CHARGE FOR CURVED SHEETS

	24G Hy-Rib	26G Hy-Rib	28G Hy-Rib	Hy-Rib Lathing
Over 750 sq. yds.	10/3d.	8/10d.	7/7½d.	4/6d.
100 to 750 sq. yds.	10/5d.	9/-	7/9½d.	4/7d.
Under 100 sq. yds.	10/7d.	9/2d.	7/11½d.	4/8d.

HY-RIB DIVISION Truscon Limited, 35-41 Lower Marsh, London SE1. Telephone: WATerloo 6922

Also: Birmingham, Central 2345-6 · Bristol 21861 · Glasgow, Central 0157-8 · Liverpool, Central 5281-2
Manchester, Trafford Park 2766 · York 24594

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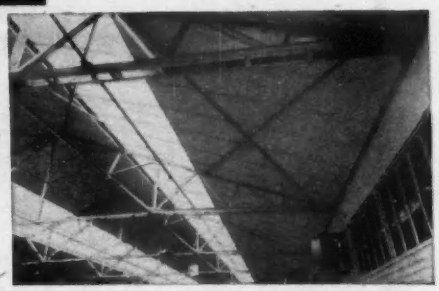
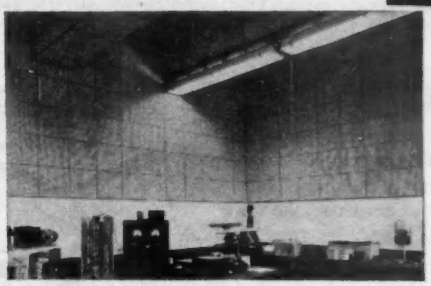


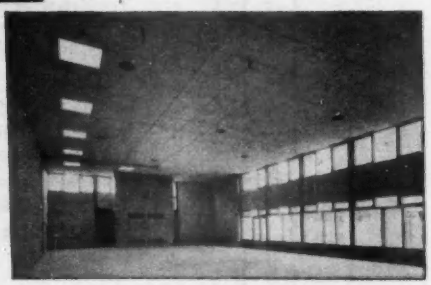
UNITEX ACOUSTILES



SOUND ABATEMENT

'VEELAP' INSULATION

SUSPENDED CEILINGS
3'4" MODULE



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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 55 of this issue. The form can be used for more than one inquiry.

ADHESIVES

ONE DIMENSIONAL ADHESIVE: Based on 'Polybond Universal' adhesive this gives an immediate bond which prevents lifting but allows freedom of movement in the same plane as the surfaces bonded. The material is clear and free running, no solvents are required and only water is used for cleaning. The bond is stronger than contact resins and insensitive to heat. Good for fixing sheets, panels and tiles.
Polybond, Ltd.,
16 Gloucester-place, W1.

CONTRACTORS' PLANT

'GOODENOUGH' 315LD PUMP: Extremely compact and portable 3-inch diesel driven pumping set incorporating the Lister SL.1 air-cooled engine. Automatically self-priming centrifugal type pump with exceptionally fast re-priming up to a suction lift of 25 ft. Suitable for all contractors' duties, it is capable of handling sandy and muddy water containing up to 25 per cent solids in suspension. It will operate equally well on large volumes and on 'snore.'
Goodenough Pumps Ltd.
112 Jermyn-street, SW1.

FLOOR FINISHES

'FELTWOOD' FLOORS: a wood mosaic floor stuck to bitumen felt to form panels 18 in. square by ⅜ in. and ½ in. thick. Varying timbers can be laid in the same floor or in the same panel. Available in oak and other timbers. Can be laid on screeded concrete or old wood floors bedded in bitumen latex. The price is about the same as other wood mosaic floors.
Vigers Bros., Ltd.,
7 Ludgate-broadway,
London, E.C.4.

PAINT

'TREROCK' FLAME-RETARDANT PAINT: The surface of fibre-board, when treated with Trerock can be raised to a Class 1 surface of a very low flame-spread to comply with certain fire-preventative regulations in the Thermal Insulation (Industrial Buildings) Act which came into force on January 1, 1959. This emulsion type paint combines in one treatment the flame-retarding properties with a decorative effect at an economical cost and provides a permanent protective surface. It is supplied ready for use in one pack; has excellent storage properties; is easily applied by brush, spray or roller. Available in an attractive range of 20 shades, with a matt finish; is moisture resistant, washable, non-corrosive, non-toxic and non-hygroscopic, resistant to fungus, not injurious to the skin.
Pearl Varnish Co., Ltd.,
Treforest Industrial Estate,
Pontypridd, Glam.

TECHNICAL LITERATURE

NEW TECHNICAL LITERATURE: 'Marley Products 1959,' a massive volume—*Marley Tile Co., Ltd., Sevenoaks, Kent.* 'The Method At Work,' further examples of the A75 building system.—*A. H. Anderson Ltd., 66 Victoria-street, SW1.* 'Acrow Rolstore Division,' an illustrated catalogue.—*Acrow (Engineers), Ltd., South Wharf, London, W2.* 'Girlings' for Floors and Roofs,' a brochure and reference book—*Girlings Ferro-Concrete Co. Ltd., Great South West-road, Feltham, Middx.* 'Building Topics,' latest issue of a journal dealing with the products of *Tretol Ltd., The Hyde, NW9.* 'Adhesion by Croid,' a handbook—*Croid Ltd., Imperial House, Kingsway, WC2.* 'Partitions,' an illustrated booklet on their features, fittings and acoustical correction—*Compactom Ltd., Oxgate-lane, Cricklewood, NW2.* 'Bellrock,' a brochure—*Bellrock Gypsum Industries Ltd., 200 Westminster Bridge-road, SE1.* 'Industrial Lighting Fittings,' an illustrated catalogue—*Crompton Parkinson Ltd., Crompton House, Aldwych, WC2.*

SANITARY WARE

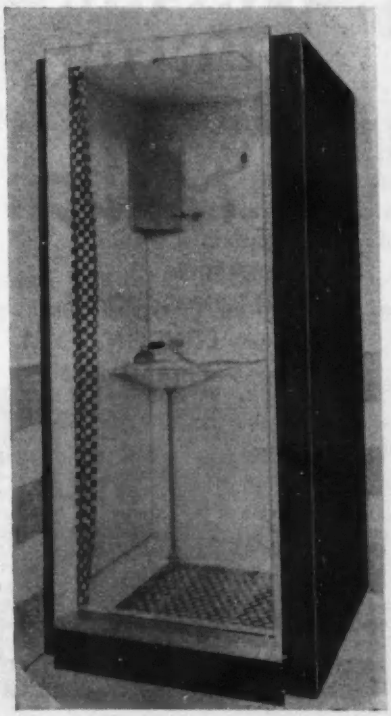
THE 'LEISURE' SHOWER CUBICLE: completely self-contained, delivered on site ready for erection without structural alteration. Easily connected to existing services. Constructed in pressed steel, finished in black and white vitreous enamel. Fittings include a shower attachment on a flexible chrome pipe, wash basin, glass holder, mirror, rubber mat, glass panel in top for lighting, plastic curtain on nylon curtain rail and a beech doorstep. The cubicle stands 81 in. high with 77 in. headroom. Overall size is 41 in. x 36 in. (Illustration.)
Allied Ironfounders Ltd.,
28 Brook-street, W1.

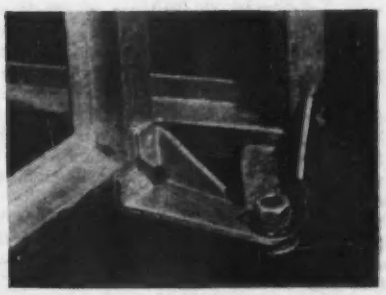
BATH SAFETY RAIL: a safety device for the 'Atlanta' type bath in the form of a transverse rail in chromium plated steel forming a firm and reliable support. Hinged in a central position on the inside roll of the bath, with its free end resting on the outside roll. When not in use it can be hinged back against the wall and is held in place by a ball catch. The handgrip is supplied fitted to the bath and is useful for old people, invalids, etc. (Illustration.)
Bilston Foundries Ltd.,
Bilston, Staffs.

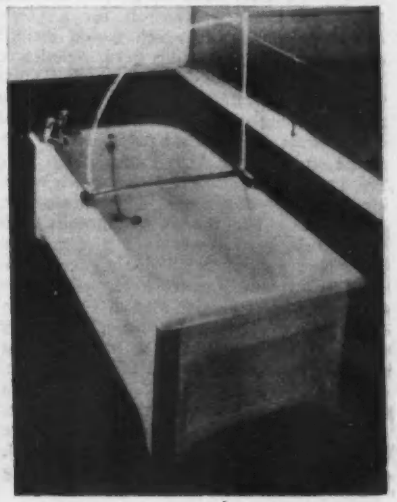
WINDOWS

FRICTION HINGE: all Crittall hot-dip galvanised standard windows can now be supplied without extra cost with a friction hinge as an optional alternative to the peg-stay. Both fixed and swinging hinge leaves are of sheet steel angularly formed and hot-dip galvanised with the window frames to which they have previously been welded. Pressure for friction is maintained by a galvanised bolt and nut, prevented from rotating by the clevis and composite washer, both of stainless steel, which provide the only mobile bearing surfaces. (Illustration.)
The Crittall Manufacturing Co., Ltd.,
Braintree, Essex.

right: The Crittall friction hinge
below: The 'Leisure' shower cubicle
below, right: How the hinged safety rail on the Bilston 'Atlanta' bath works







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OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA.—The New South Wales Electricity Commission chairman, Mr. Conde, announced recently that £1.5m. will be spent on the initial construction of the Lake Macquaria (Vales Point) Power Station, New South Wales, in 1959. When complete the station will have cost £60m. and have a generating capacity of one million kilowatts. The initial plant will be operating in 5 years. . . . The New South Wales Electricity Commission also announced recently details of a £20m. power line construction programme to meet the State's expanding need for power. New sub-stations at Awaba and Ourimbah and the enlargement of the Springhill sub-station will increase the supply of power to Newcastle, the Brisbane Water County Council and Port Kembla. New sub-stations are also to be constructed at Narromine, Coonamble and Nyngan to increase supplies to those towns. Walgett will come into the Commission's network for the first time with the construction of a 110-mile transmission line from Narrabri. . . . Queensland Railways are to build a 884-ft. long 10-span bridge over the Pioneer River at Mirani, at a cost of £301,000 to replace the bridge destroyed in the 1956 and 1958 floods. . . . A bridge to connect Chevron Island with the mainland will include the largest prestressed span in Queensland. This will be 527 ft. long with a 24-ft. roadway and one six-ft. footwalk. . . . Wangaratta Shire Council are to construct a bridge over Yeates Creek 15 miles south of Bowen on the main road to Mackay, on behalf of the Department of Main Roads. The bridge will be of steel and concrete with five 45-ft. spans. Work is to start almost immediately. . . . . The Commonwealth Parliament's Public Works Committee has approved designs for a central mail-handling exchange at Cleveland-street, Redfern. Estimated cost of the building is £4,170,000. Demolition and construction will take about 4½ years. . . . Original Sub-Dividers Pty. Ltd. and Sharp's Land Development Corporation Pty. Ltd., affiliated companies, have bought 429 acres near the proposed site of Melbourne's new jet airport for a £15m. development scheme, which would include a civic centre, swimming pool, velodrome and 1,141 houses. . . . The Prudential Assurance Co. Ltd. will erect a 14-storey office building on the south-east corner of Queen-street and Bourke-street, at an estimated cost of £1m. . . . Consolidated Zinc Pty. Ltd. is to erect a 20-storey office building at a cost of £2m. at 95 Collins-street, Melbourne. The Royal Automobile Club of Victoria is to construct a £1¼m. combined club and office building on the north-west corner of Queen-street and Little Collins-street. Colonial Mutual Life Assurance Society propose to construct a 17-storey 190-ft. high office building on the north-west corner of Collins-street and Elizabeth-street, at an estimated cost of £3m. . . . Work is to begin some time this year on a £2.5m. American-style regional shopping centre being established by Myer Emporium Ltd. on a 30-acre site at the corner of Dandenong and Chadstone roads, East Malvern, Victoria. The centre, which will include a Myers department store and shops for leasing is expected to be completed by October, 1960. . . . Hooker-Rex Co. Ltd. has been selected by the Queensland Government to develop South Stradbroke Island as a tourist resort. Plans include a hotel to international standards, concrete bridges to the mainland via Crab Island, caravan parks, motels, and boat harbours. The company intends to spend £3m. in the next five years. . . . The Gold Coast Town Council has approved a £2m. land development scheme for a working man's suburb comprising 600 allotments on 106 acres at Southport, Queensland. The scheme is being promoted by Factors Ltd. Tenders have been called for roads and drainage. . . . The National Capital Development Commission has approved in general plans for a £2.5m. extension which would add 400 beds to Canberra Community Hospital. Work is expected to start early in 1959.

CANADA.—Plans for construction of sawmill, plywood and board plans, at Squamish, British Columbia, will cost more than $3m., it was disclosed by Empire Mills Ltd. . . . Alaska-Yukon Refineries and Distributors Ltd., with headquarters at Edmonton, Alberta, is to establish a $1m. refining unit at Haines Junction in the Yukon territory. Engineering design and construction will be carried out by The Fluor Corporation of Canada Ltd., Toronto, Ontario. . . . Construction of a $2m. plant for Kelly Douglas Co., Ltd., at the Lake City Industrial Park in Burnaby, has been announced. The general contractors are Industrial Leaseholds Construction Ltd.

KENYA: Contractors are to be asked to tender for the completion of a £1½m. African housing scheme at Ofafa, Nairobi, for the City Council, reports Barclays Bank DCO. Terms will be similar to those supplied on Kenya's £4m. road project—payment of 6 per cent interest at six monthly intervals with capital repayment deferred for at least four years. . . . The contract for a new £500,000 office block in Nairobi for the Shell Company of East Africa, Ltd., and its associates, was signed in January. It is expected to be completed in the second half of 1960.

NIGERIA: The Ministry of Works of the Northern Region Government of Nigeria has entrusted to Costain (West Africa) the construction of a new road, including three bridges, between Kariya and Bunga in Bauchi province, Northern Nigeria. Value of the contract is about £200,000 and work on the project is expected to start in March. . . . Costain-Blankevoort Dredging Co., have received a contract valued at more than £500,000 for dredging the Bonny Bar, off the approach channel to Port Harcourt. The work is being carried out for Shell-BP, Nigeria.

PERSIAN GULF.—The Kuwait Development Board recently appointed the American firm of Messrs. Amman and Witney as consultants for the proposed £10m. town sewerage and sewage disposal scheme. Consultants have been appointed for the proposed Class A international airport and calls for tender have been issued for the construction of the Kuwait/Basra highway.

SOUTH AUSTRALIA: Contracts to construct two 130 ft. mobile research towers for the Woomera rocket range in South Australia have been received by the British engineering firm of Strahan and Henshaw, of Bristol. The firm has secured a contract worth £1m. to erect two towers at Woomera and two in England. They will take about 12 months to make.

USSR.—Nearly 43,500 miles of new highways are to be built in the Soviet Union in the next seven years. New arterial roads will link Moscow with Stalingrad, Gorky and Kuibyshev, three cities on the Volga, and with Kiev and Riga. The longest of them will be the 620-mile Moscow-Stalingrad road. Other motor roads are planned between Kuibyshev and Chelyabinsk and between Sverdlovsk to link with the Volga region with the Urals. Republican, regional and local roads are to be built in the east of the country, in Kazakhstan, Kirghizia and Uzbekistan and in those areas of the Russian Federation where virgin land is being put into cultivation.

Companies Incorporate for Vancouver Project

THE FIRM of Grosvenor-Laing (BC) Limited announce the incorporation of two companies which will be associated with it in the development of the 3,000 acre industrial, commercial and residential Langley Park Estate near Vancouver, British Columbia, which was announced recently in the Press. The two companies are Grosvenor-Laing (Langley Park) Limited and Macdonald-Buchanan Properties Limited and in common with Grosvenor-Laing (BC) Limited the capital for both companies will be subscribed from UK sources.

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GLASGOW, C.2	...	Douglas	3281-2
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At Wilmslow—Messrs. D. Stewart are building 32 houses with ENTRAINIT. Previously they used another plasticiser but changed to ENTRAINIT because *it saved more money!*

At Sale—another builder who had always used a liquid plasticiser, has proved on this site that ENTRAINIT not only costs less but produces *better mortar!*

At Timperley—the builders of yet another estate changed to ENTRAINIT when they found it was more economical and far *easier to control*

Hundreds of builders prove Entrainit saves more money!

It's the powder plasticiser that outdates all others!

More facts about Entrainit

Entrainit is a powder. You add it straight to the mixer with the special scoop supplied—no stock solution to mix, no splashing, no wastage.

Entrainit comes in handy 28 lb. boxes which are easy to store and can be carried to any part of the site—no drums to pay a deposit on, or return.

Entrainit gives you almost instant dispersal throughout the mix. You get a completely consistent and uniform mix. Mortar made with ENTRAINIT is fattier, more workable, produces well-filled joints and gives a smooth durable finish.

Entrainit is 50% cheaper than liquid admixtures—it's the lowest priced plasticiser on the market costing only 3d. an oz.!

Change to Entrainit and save money on every mix!

Obtainable from Builders' Merchants!

For further details about ENTRAINIT fill in and post this coupon to:

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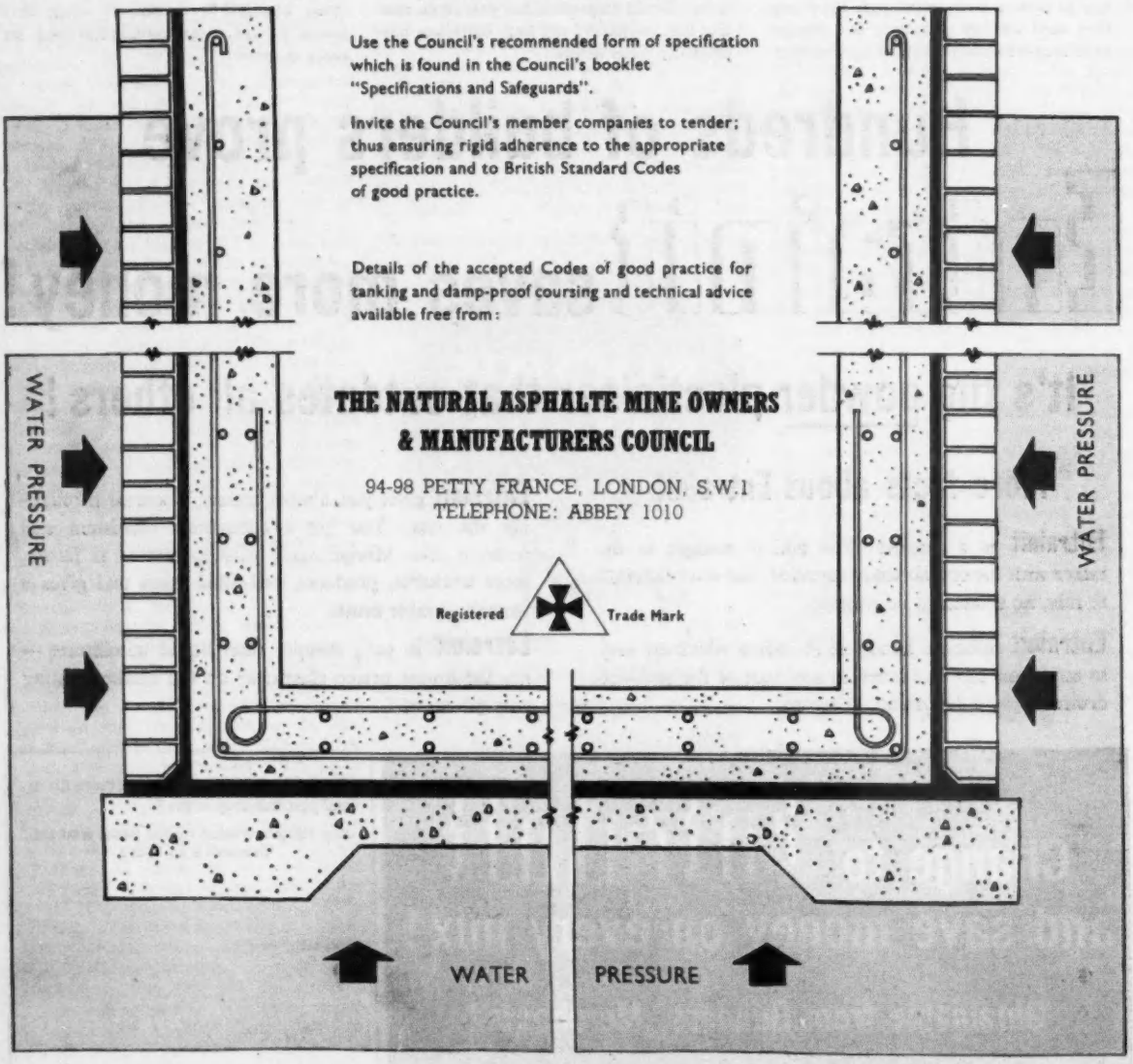


SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	52 3
2nd	33⅓	69 8
3rd	50	104 6
4th	66⅔	139 4
5th	75	156 9

For female labour, the rates are:

	s. d.
Operatives on craft operations (at end of probationary period)	4 2½
Operatives on labouring operations (at end of probationary period)	3 8½

Overseas Contracts Open

Australia.—The Government of Tasmania Department of Public Works invite applications from experienced civil engineering contractors (or groups of contractors) for inclusion in the list of tenderers for the construction of a high level multi-span prestressed concrete structure across the River Derwent at Hobart. The bridge, founded on long tubular piles, will be of 4-lane capacity and approximately 4,500 ft. in length, rising to a maximum height of 160 ft. above water level. Further information can be obtained from the offices of the Department's consulting engineers, Messrs. G. Maunsell and Ptnrs, 7 Cleveland-row, London, SW1. Applications should reach the Director of Public Works by March 20 next. Closing date for tenders is August 31 next. Ref. ESB/3630/59 (Tel.: Chancery 4411, ext. 738 or 771).

Hong Kong.—Tenders invited by the Government of Hong Kong for construction of the Shek Pik Dam at Lan Tao. Work includes dam approx. 2,300 ft. long by 176 ft., max. height, concrete overflow, Bellmouth spillway and 17 ft. dia. diversion tunnel approx. 1,700 ft. long. Deposit £25. Contract documents from Binnie, Deacon and Gourley, MMICE, Artillery House, Artillery-row, Westminster, SW1.

MIDDLE EAST MARKETS

Prospects for British Industry

SPEAKING AT the dinner of the Association of Consulting Engineers held on February 16 MR. J. K. VAUGHAN-MORGAN, MP, Minister of State, Board of Trade, said: 'Last year I was rash enough to speak to you on prospects for British industry in the Middle East. Wisely I referred to those markets as being still fraught with difficulties. As they have proved, these difficulties have affected no industry of ours more than the constructional industry. But the fact remains that despite all the turbulence and turmoil the Middle East continues to grow each year in importance as a market for this country.

'The greatest obstacle in the way is the lack of capital for development. There is not enough money, and I do not suppose there ever will be. But I suggest that it is important that British firms seeking work overseas should be thoroughly familiar with and understand the various sources both national and international from which development capital can be obtained.

'I note with pleasure that the amount of work for which British consulting engineers are responsible, currently amounts to £550 m. Last year it was £506 m. and I congratulate you that in a difficult year marked by recession, you have been able to go forward.'

The SCOTTISH BUILDER

SSHA Appointment

MR. HAROLD E. BUTEUX, ARIBA, AMTPI, Senior Architect (Housing) with the City of Birmingham, has been appointed to the post of Chief Technical Officer with the Scottish Special Housing Association.

Prior to joining the staff of Birmingham Corporation, Mr. Buteux held appointments with Stevenage New Town Development Corporation and London County Council.

Second Tunnel Under Clyde?

THE QUESTION of driving a second tunnel under the Clyde between Linthouse and Whiteinch is likely to be raised soon with Mr. John Maclay, Secretary of State for Scotland. The first tunnel has now been under construction for 20 months, and is not due to be completed until 1961, but in order to ensure continuity of contract Glasgow Corporation will require approval in principle for the second tunnel.

Contracts were based on twin-tunnel construction provided that approval for the second project was obtained within a stipulated period after work began. The time limit expires in about a year. The cost of the single tunnel will be £6.4m., and of double tunnels about £11m.

NEW BUILDINGS

Aberdeen.—Town Planning Com. approved plans for block of 18 shops at Greenfern-rd., Mastrick.

Fife.—Dean of Guild Court permission given to TC to erect 10 houses at Westfield-rd., Cupar.

Glasgow.—Plans approved by Corporation Housing Comm. for three 20-storey blocks of flats at Castlemilk each containing 39 two-apt. and 38 three-apt. houses. City A: A. G. Jury (F).

Glasgow.—Plans approved by Corporation erection of football pavilions at Cowlairs Park, Greenfield Park and Queen's Park Recreation Ground at a total cost of £32,500.

Greenock.—Dept. of Health for Scotland approved erection of 84 houses in four-storey blocks by TC.

Hamilton.—Plans in hand for 74 houses at Udston Hillhouse development scheme for TC.

Inverness.—The Secretary of State invites tenders for reconstruction of Spean Bridge-Moy-road (about 6½ miles). Applications to Chief Road E, Scottish Home Dept., Bankhead-ave., Sighthill, Edinburgh 11. Dep. £15.

Kirkcaldy.—Extension at Victoria Hospital to cost £600,000.

Lanarkshire. — Lanark-Hamilton Highway (A72) improvements from south end of Crossford Village southwards to Underbank School. Works include realignment, widening and regrading of existing carriageway and construction of footpath and mass concrete retaining wall on west side of highway. Applications to County S, 19 Auchingramont-rd., Hamilton. Dep. £10.

Perth.—Plans approved by Dean of Guild Court for 30 three-apt. and 10 two-apt. houses at Stormont-st.

St. Andrews.—TC granted planning permission to Messrs. Bett Brothers, Ltd., of Dundee for 11 houses at their Kilrymont-rd. scheme.

The Builder FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

BUILDING

MARCH 2

†Ripon City C.—Bondgate redevelopment—13 flats and a shop. TC.

***Southampton CBC.**—24 flats at corner of Portswood-rd. and Sirdar-rd. Boro' E.

MARCH 4

***†Tottenham BC.**—2[illegible] dwellings in three 10-storey blocks (r.c. framed) and two four-storey blocks, garages, stores, etc., at White Hart-la. redevelopment, N.17. Boro' E. Dep. £2 2s.

MARCH 5

***Surrey CC.**—Kitchen and dining room at Green Wrythe county prim. sch., Carshalton. County A.

***†Surrey CC.**—Kitchen and dining room at St. Paul's CofE prim. sch., Dorking. County A.

MARCH 6

***†East Suffolk CC.**—Grammar sch. at Bungay. County A. Tenders by April 9.

***†Wilts CC.**—Extensions to Warneford sec. mod. sch., Highworth, nr. Swindon. County A.

MARCH 7

***†Essex CC.**—(1) Additional classrooms, etc., at Kirby-le-Soken county prim. sch. (2) Lavatory accommodation at Matching Green CofE (controlled) prim. sch. (3) Extensions and alterations at Gosfield county prim. sch. County A.

MARCH 9

***†Bath BC.**—Snow Hill redevelopment—5-storey block of 56 maisonettes. A: Snailum & Le Fevre, 18 Brock-st., Bath. Dep. £2 2s.

***†West Riding of Yorkshire CC.**—Conversion of playshed into wash-up and dining room at Pudsey Primrose Hill sec. sch. County A. Dep. £2 2s. Tenders by March 23.

MARCH 11

***†Birmingham City C.**—Firm price tenders for alterations at Digbeth Civic Hall. City A. Dep. £2 2s. Tenders by April 13.

***†Durham CC.**—(1) Farmhouse at Weterton House Farm, Sedgefield. (2) Farmhouse at Lizards Farm, Sedgefield. (3) Farm steading at Sprucely Farm, Sedgefield. (4) Six police houses at Bishop Close site, and two at Rockwell-ave. site, Salters-la. South estate, Darlington. County A.

***†United Liverpool Hospitals.**—Inclusion in prescribed lists of building and decorating contractors. Secretary, 80 Rodney-st., Liverpool, 1.

***†United Liverpool Hospitals.**—New operating theatre block and lecture hall at Liverpool Royal Infirmary. Secretary, 80 Rodney-st., Liverpool, 1.

MARCH 12

***New Sarum City C.**—Fixed price tenders for:—(a) 32 houses, eight bungalows, 26 flats and 31 garages, and (b) 24 houses, 22 flats and 24 garages at Bishopdown estate. City E. Dep. £2.

MARCH 14

***Tettenhall, Wrottesley and Codsall Joint Cemetery Bd.**—Superintendent's lodge and other ancillary buildings at new cemetery at Coppice-la., E&S to Bd. Dep. £3 3s.

MARCH 16

***Bootle BC.**—(1) 196 houses and flats a. Sterrix-la. site and (2) fixed price tenders for 81 similar dwellings at Glovers-la. site. Boro' S. Both or either. Dep. £2 2s.

***Grantham BC.**—Fixed price tenders for 18 houses. Boro' E. Dep. £2 2s.

***Ruislip-Northwood UDC.**—66 garages on five sites. E&S. Dep. £2 2s.

MARCH 17

***Huntingdonshire EC.**—Fixed price tenders for additions to St. Neots CP mixed sch. County A.

***Malvern UDC.**—Fixed price tenders for 16 houses at Beauchamp-rd. estate, Malvern Link. S&WE. Dep. £2 2s.

MARCH 18

***Central Durham Crematorium Joint Committee.**—Erection of crematorium at South-rd. cemetery, Durham. A: Chaplin & Burgoine (A), 44 Cathedral-close, Norwich. Dep. £2 2s.

MARCH 19

***Cardiff City C.**—Fixed price tenders for (1) home for 40 aged persons at Minehead-rd., Llanrumney; (2) home for 36 aged persons at Gabalfa-ave., Gabalfa; (3) branch library at Countisbury-ave., Llanrumney; (4) branch library at Doyle-ave., Fairwater, and (5) new assembly hall, servery and administration block, Rhydypenau CP sch., Llanishen. City A. Dep. £2 2s.

***Chorley BC.**—Extension to Borough library. Council's consultant A: W. E. Mayer (A), 12 Cleveland-st., Chorley. Dep. £2 2s.

***Ealing BC.**—Six flats on Thompson's Cottages site, Church-la., W5. Boro' S. Dep. £5.

***Newbury BC.**—Nine aged persons' dwellings at Enborne-rd., Newbury. Boro' S.

MARCH 20

***Church Stretton UDC.**—Eight houses and one old people's bungalow on Lutwyche-rd. site. C. Dep. £3 3s.

***Shrewsbury BC.**—Fixed price tenders for 113 dwellings and 13 garages at Harlescott Grange estate. Boro' S. Dep £2 2s.

***†Stevenage UDC.**—Firm price tenders for 52 houses, 12 old persons' bungalows and 29 garages at Fishers Green-rd., Stevenage. E&S.

***†Walsall BC.**—New baths at Tower-st., Walsall. Boro' E&S.

MARCH 21

***Southport and District Water Bd.**—Fixed price tenders for pump house, engine house, filter house, etc., at Mill Brow, Scarisbrick, nr. Southport. Engr. & Mgr., 14 Portland-st., Southport. Dep. £3 3s.

MARCH 23

***Exmouth UDC.**—24 old people's bungalows at Nutbrook and Burnside site, Withycombe Village, Exmouth. E&S. Dep. £2 2s.

***Warwick BC.**—Block of 11 flats and three single-storey flats on adjoining site at Linen-st. Boro' E&S. Dep. £2 2s.

MARCH 24

Huddersfield CBC.—Firm price all-trades tender for erection of Rawthorpe county jun. sch. Boro' A. Dep. £2 2s.

***Ilford BC.**—Public convenience at York-rd., Ilford. Boro' E. Dep. £2 2s.

***Ilford BC.**—Public conveniences at Goodmayes Park extension and Cricklefield athletic ground. Boro' E. Dep. £2 2s.

***Kidsgrove UDC.**—(1) 12 flats at Everest-rd., Whitehall. (2) 12 flats at Hollinwood-rd., Butt-la. E&S. Dep. £2 2s.

***Worcester City C.**—Adaptations and extensions to Warndon Hall to form old people's home. City E&S. Dep. £3 3s.

MARCH 25

***Lincoln CC.**—Firm price tenders for 41 dwellings and 10 garages, Ermine Estate West and Swift-gdns. County A. Dep. £2 2s.

***North Riding EC.**—Alterations and extensions to Startforth Merritt Memorial CofE sch., nr. Barnard Castle. F. Barraclough, County Hall, Northallerton.

***Whiston RDC.**—40 houses at Holt-la., Whiston. E&S.

***Wood Green BC.**—Fixed price tenders for:—(a) 36 maisonettes and 18 flats at Winkfield-rd./Acacia-rd.; (b) six dwellings at Devonshire Hill-la. Boro' E. Dep. £2 2s. each contract.

MARCH 26

***Reading BC.**—Firm price tenders for:—(1) extension to a physics laboratory, and (2) staff toilets and alteration to staff room at Reading school. Boro' A.

MARCH 27

***Leatherhead UDC.**—24 dwellings at Shamrock Field, Fetcham. E&S. Dep. £2 2s.

MARCH 31

***Middlesbrough BC.**—Firm price tenders for 52 flats and maisonettes and 13 houses, with site clearance, sewers and some road works at St. Hilda's. Boro' E. Dep. £2 2s.

***North Riding EC.**—Second instalment of grammar and mod. sch. at Thirsk. F. Barraclough, County Hall, Northallerton, or Julian Leathart & Son (F/A), 49 Welbeck-st., London, W1.

APRIL 3

***Aycliffe DC.**—Fixed price tenders for 204 houses, 72 lock-up garages and three motorcycle lock-ups at housing precinct E4, Newton Aycliffe. Corpn's. Ch. A. Dep. £2 2s.

APRIL 6

***Stourbridge BC.**—Extensions to and conversion of chapel building at South-rd. cemetery into crematorium. Boro' E&S. Dep. £3 3s.

APRIL 9

***Cardiff City C.**—Fixed price tenders for home for 40 aged persons at The Hendre, Llandaff. City A. Dep. £2 2s.

NO DATE

***Newmarket UDC.**—(a) 24 flats and (b) eight flats at Houldsworth Valley estate—either or both. A: P. D. Lewis (L), Council Offices, Severalls-hse., Newmarket. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

MARCH 5

***†Southampton BC.**—Detail design, supply and delivery of 234 hardwood casement windows and ironmongery at Glen Eyre sec. girls' sch. Boro' A. Tenders by March 25.

MARCH 7

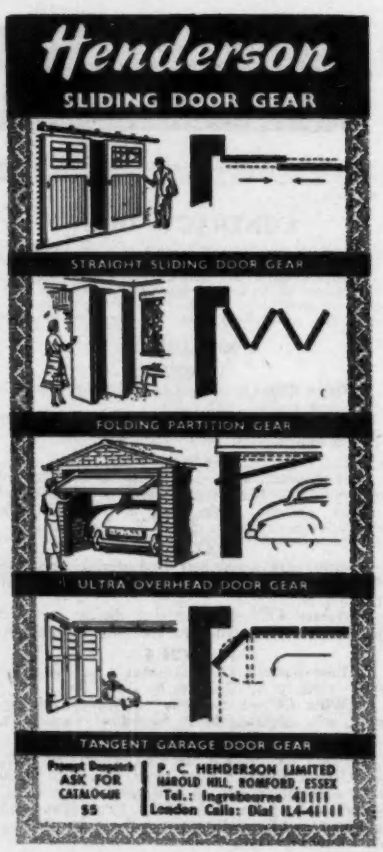
***†Essex CC.**—Firm price tenders for internal and external painting at sundry schools. County A.

MARCH 9

Ashton-under-Lyne BC.—Road and building materials. Boro' S.

Holland (Lincs.) CC.—Road materials. County S.

***†Thurrock UDC.**—External rendering of pre-war council houses. Estates Mgr.



MARCH 11

***Havant and Waterloo UDC.**—Fixed price tenders for 200 CI baths. E&S.

***†Wandsworth MBC.**—External painting works to multi-storey blocks at Henry Prince estate, Garratt-la., SW18. TC.

MARCH 12

***Hayes and Harlington UDC.**—External redecoration of (1) 147 prefabricated bungalows with outhouses at Cranford estate; (2) 45 prefabricated bungalows and outhouses at Balmoral-dr. estate, and (3) 78 traditional houses at Harlington estate. Estates Manager, Townfield-rd., Hayes, Middx.

***Southport CBC.**—Low pressure hot water heating system at 44-46 Hoghton-st. Boro' A. Dep. £2 2s.

MARCH 16

Dearne UDC.—Materials. E&S.

MARCH 23

***Reading BC.**—Firm price tenders for fencing and wooden gates at 132 houses, Axford-rd., estate. Housing Mgr.

MARCH 24

***Sunderland Education Authority.**—Improvements and extensions to heating system at Bede grammar schools. A: S. W. Milburn & Ptnrs. (F), 9 The Esplanade, Sunderland.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MARCH 6

†East Kesteven RDC.—Brick-built water pumping station, 1,000 lin. yd. of small-dia. sewers, sewage disposal works, ejector station, etc., at Ashby de la Launde. Howard Humphreys & Sons, constg. engrs., Victoria Station-hse., Victoria-st., SW1. Dep. £5 5s. Tenders by March 30.

MARCH 7

†Hornchurch UDC.—1,170 lin. yd. of 15in. dia. salt glazed ware pipe with concrete protection, manholes, etc. (one third in heading or deep trench) in St. Mary's-la., Upminster. C.

MARCH 10

Antrim, NI, CC.—(a) 1.1 miles of 24ft. wide carriageway, retaining walls, etc., from route T.9 at Ballynure to Ballyclare, on route B.57; (b) 1,100yd. of 24ft. wide carriageway, etc., from junction with route B.52 towards Toome, on route B.18; (c) 700 yd. of 24ft. wide carriageway at Moneyglass-hse. and improvement of junction with district road No. 112, etc., on route B.18. County S, Belfast. Dep. £5 5s. each contract.

MARCH 12

Carlisle City C.—River Eden scheme. Filter house, sludge settlement tanks, sludge lagoons, etc., adajacent to Cumwhinton reservoir, nr. Wetheral, Carlisle. Rope & Raffety, 9 Brewer's Green, Buckingham Gate, SW1.

Cheshire River Bd.—600 yd. channel improvement and concrete fluming; 150 yd. improvement of open channel, and bridgeworks on River Birket at Meols, and concrete weir and accommodation bridgeworks on River Fender at Upton. E to Bd. Dep. £3 3s.

MARCH 14

Welton RDC.—Extensions to sewage treatment works at Bardney, Lincs. John H. Haiste & Ptnrs., Ccl's. constg. engrs., 20 Wood-la., Headingley, Leeds, 6. Dep. £3 3s.

Wycombe RDC.—Hughenden sewerage—37,000 lin. yd. of 4 in. to 12 in. dia. concrete and stoneware sewers, 1,750 lin. yd. of 4 in. and 7 in. dia. spun-iron pumping mains, 500 concrete manholes, pumping station building and two ejector station buildings, road re-instatement, etc. E&S. Dep. £3 3s.

Wycombe RDC.—Stokenchurch sewerage.—31,000 lin. yd. of 4 in. to 12 in. dia. concrete and stoneware sewers, 1,000 lin. yd. of 4 in. spun-iron pumping mains, 373 concrete manholes, pumping station building and ejector station building, road reinstatement, etc. E&S. Dep. £3 3s.

MARCH 16

Banbury BC.—17,400 super. yd. of carriageway and 3,550 lin. yd. of 6in. to 15in. dia. foul and SW sewers at Neithrop housing estate. Boro' E&S. Dep. £2 2s.

Hemel Hempstead RDC.—Sewage disposal works, 850 lin. yd. of 6in. dia. soil sewers, access, roads, etc., at Jockey End, Great Gaddesden. E&S. Dep. £2 2s.

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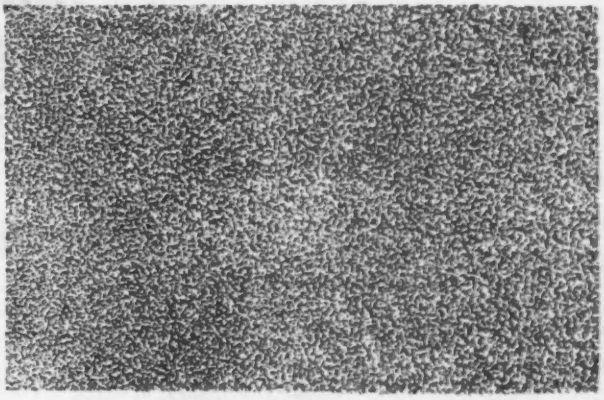

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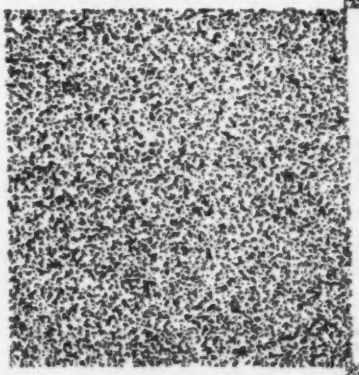

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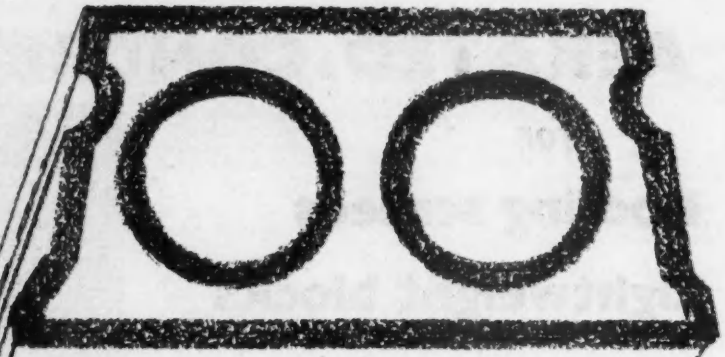

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London Showrooms, 251 Tottenham Court Road, W.1

Isle of Wight RDC.—1,700 lin. yd. of 6in. concrete tube sewer, manholes and sewage disposal works at Calbourne. Lemon & Blizard, Ccl's. constg. engrs., Telford-hse., Hulse-rd., Southampton. Dep. £3 3s.

Lancashire CC.—Widening and diversion of Redcyffe-road B.214, Urmston, between Stretford-Eccles by-pass and Dumplington roundabout, including 820yd. of dual carriageway with footway. County S. Dep. £10.

Wareham and Purbeck RDC.—Fives miles of 12in., 9in. and 6in. concrete and stoneware sewers, 4in. stoneware laterals as required, ½-mile of 4in. spun-iron and asbestos-cement rising mains, sewage treatment works, three small ejector stations, etc., at Upton, in Lytchett Minster parish. E&S. Dep. £10.

MARCH 20

Knighton RDC.—Bleddfa and Lugg Valley water supply scheme. Contract No. 1.—Fixed price tenders for 1,275yd. of 5in. and 4in. spun-iron pipes; 14,665yd. of 5in., 3in. and 2in. asbestos-cement pipes; 1,065yd. of 1½in. steel pipes; 1,445yd. of 1in. polythene tubing; two covered r.c. storage reservoirs, 30,000-gall and 2,000-gall. respectively, and intake works, etc. (Tenders will be invited in next six months for Contract No. 2; consisting of 17,000yd. of 5in. to 2in. pipes and three covered r.c. storage reservoirs.) Wallace Evans & Ptnrs. Ccl's. constg. engrs., 30 Stanwell-rd., Penarth, Glam. Dep. £10.

Llandeilo RDC.—800yd. of 6in. stoneware sewers, 400yd. of 6in. concrete sewers, 260yd. of 6in. spun-iron sewers, 332yd. of 3in. CI pumping main, sewage disposal works, two pumping stations and manholes, etc., at Llansawel Village. E&S. Dep. £2 2s.

MARCH 21

Flaxton RDC.—Fixed price tenders for extensions to sewage disposal works at Haxby and New Earswick, new sewage pumping station and 1,950 lin. yd. of 6in. and 9in. asbestos-cement rising main. Fairbank & Son, MInstCE., 'The Gables,' 62A Bootham, York. Dep. £2 2s.

MARCH 23

Rugby RDC.—Wibtoft water supply.—R.c. service reservoir at Cloudesley Bush, capacity 220,000-gall., including valve house, and eight miles of asbestos-cement and spun-iron water mains, 3in. to 8in. dia., with valves, hydrants, meters and copper tube service connections. J. D. & D. M. Watson, M/MICE, 67 Tufton-st., SW1. Dep. £10 10s.

MARCH 24

Clutton RDC.—7,400yd. of 14in., 12in. and 9in. dia. and short length of 4in. dia. CI mains from Clutton North End to Norton Radstock. Thomas Morgan & Ptnrs., constg. engrs., 23 Gelliwastad-rd., Pontypridd, Glam. Dep. £5 5s.

APRIL 3

Midhurst RDC.—Nyewood and Habin sewerage scheme.—1,470 lin. yd. of 6in. dia. salt-glazed stoneware pipe sewers and manholes, including pipebridge crossing River Rother, 1,450 lin. yd. of 4in. dia. asbestos-cement rising mains and two sewage pumping stations. (Fixed price tenders.) E&S. Dep. £2 2s.

APRIL 4

Oxford City C.—750,000-gall. capacity r.c. covered service reservoir, with access road, drains and pipework at Wootton, nr. Abingdon, Berks. City WE.

APRIL 6

Kerry CC.—Lixnaw water supply scheme:—Two well surrounds, plant house, 20,000 gal. capacity water tower, intake chamber, etc., 5,861 lin. yd. of 3in. and 4in. CI, class B, and 729 7in. AC, class B water mains. Nicholas O'Dwyer & Son. Constg. engrs., 6 Burlington-rd., Dublin. Dep. £10 10s.

GENERAL BUILDING WORK

(LONDON)

Hackney.—Site Acquisition.—The Housing and TP Com. proposes to make a CPO in respect of the site of 100-106 (even) Mount Pleasant-la., on which it is estimated that 24 dwellings could be erected. The Boro' E&S is G. L. A. Downing, OBE, MICE.

Hackney.—Site Acquisition.—The Housing and TP Com. proposes the making of a clearance order in respect of two areas in the De Beauvoir Town (South) Redevelopment area, comprising 72 properties in Hertford-rd., Mortimer-rd., De Beauvoir-cres. and Downham-rd. It is estimated that, over the whole of the redevelopment area of 17 acres, an increase of 60-65 per cent in the residential capacity can be gained on rebuilding. The Boro' E&S is G. L. A. Downing, OBE, MICE.

Sutton and Cheam.—Civic Centre.—The BC has approved proposals for a new civic centre, estimated to cost £1½ m., at Cheam-rd. The building will have a clock tower 104ft. high, an assembly hall to seat 550 people, council chamber with galleries for press and public, committee rooms, mayoral suite and offices for the various departments of the Council, with movable walls, planned to allow for expansion to double the size in future years. The architect for the scheme is Romily B. Craze (F), 120 Crawford-st., W1.

Walthamstow.—Flats, Maisonnettes, Shops and Garages.—The Plans Com. has given by-law approval to the following proposals of the MBC:—Eight flats at The Hydro, Forest-rd.; 10 maisonettes and two garages on the site of the 'Golden Cross' PH; three shops and three maisonettes on the site of 64-68 Wood-st.; and five shops, six maisonettes and 15 garages on the site of 88-96 Wood-st. The Boro' Architect, E&S is F. G. Southgate (A), MIMunE, AMTPI.

Westminster. — Airways Terminal.—British Overseas Airways Corporation is to extend its London passenger terminal at Victoria by the addition of a basement, ground floor, mezzanine and six upper floors providing 25,000 sq. ft. of office space in addition to corridors, lifts, staircases and toilets, as an extension to the south of the present building. The cost of the work is estimated at £1m. Plans are by the Properties and Services Branch of the Corporation and Sir Thomas Bennett, KBE, (F), 43 Bloomsbury-sq., WC1, is the consultant architect.

Woolwich.—Houses, Maisonettes, Flats, Bungalows and Garages.—The Housing Com. has approved plans for the redevelopment of temporary housing sites as follows:—Site A (34-62 Heavitree-rd.) by a four-storey block of 30 maisonettes, a block of six bungalows, a two-storey block of four small flats, two bungalows with provision for 12 garages. Site B (2-14 Warwick-terr.) by eight houses in two terraces, with provision for four garages. Site C (37-45 Waverley-cre. and 65-77 Heavitree-rd.) by a three-storey block of nine maisonettes and nine bed-sittingroom flats, with provision for four garages. The Boro' E&S is W. H. Gimson, OBE, MICE.

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(PROVINCIAL)

Alton, Hants.—RDC to build 30 dwellings this year on site adjacent to Whitehill police station.

Barrowford.—UDC approved plans for 24 flats at The Square.

Basingstoke.—BC to take 12,000 overspill population from London. Seeks planning consent for 3,500 houses and development of industrial site at Houndmills.

Battle.—RDC to build 18 flats for elderly people, with common room and other facilities, at Mountjoy.

Bellingham, Northumberland.—RDC to build 20 houses at Otterburn. Ccl's A: W. Dixon & Son (A/L), 1 Collingwood-st., Newcastle-on-Tyne.

Belper.—RDC to erect 17 houses at Duffield and 6 at Crich.

Berwick.—Fatstock Marketing Corpn., Ltd., have submitted to TC outline proposals for £20,000 abattoir.

Billinge and Winstanley.—UDC proposes 16 bungalows and eight houses adjacent to Claremont estate.

Billingham-on-Tees.—HC approved in principle scheme for 155 houses at Marsh House-ave. S: E. Shaw.

Bishop Auckland.—UDC to make another approach to Ministry for sanction to build swimming baths. S: John Ford.

Blackburn.—EC to erect new girls' high sch in 1959/60 programme.

Blandford.—RDC to go ahead with new scheme of nine old people's dwellings and five houses at Shroton.

Blaydon, Co. Durham.—Arthur & Kirkup (L), 13 Swinburne-st., Gateshead, are A for proposed rebuilding of 'Towneley Arms,' Rowlands Gill, for Northumberland Hotels, Ltd., 12 High-st., Gateshead.

Blaydon, Co. Durham.—UDC has been allocated 120 houses for 1959. Plans by Housing S: N. Young.

Bredbury and Romiley.—UDC proposes 23 bungalows at Ruskin-gro.

Brighton. — Outline planning permission granted to Hannington's, drapers, North-st., for three-storey car park for 300-400 cars on land fronting Brighton-pl. Plan still in early stages.

Canvey Island.—Joint Town Development Com. seeks planning consent for second stage of proposed development comprising 190 dwellings, mainly two- and three-bedroomed, four shops and 36 blocks of garages. E&S: J. Jones, AMICE, AMTPI, Civic Centre, Dagenham.

Chester.—TC to appoint C. D. Pilcher of Graves, Son & Pilcher, Brighton, as S to advise council on proposed redevelopment of public market.

Chesterfield.—TC, approved plans for private chapel and sacristy at junction of Newbold-rd. and Queens-st. for Mother Superior, St. Joseph Convent.

Chorley.—TC approved plans for 139 houses and 14 bungalows at Northlands, Preston-rd., for William Townson & Sons, Ltd., Higher Swan-la., Bolton.

Christchurch.—BC to erect 18 old people's dwellings at Highcliffe.

Colchester.—NE Metropolitan Regional Hospital Bd. propose improvements to sanitary annexes at Severalls hospital, £26,440 est.; and additional steam boilers at Essex County hospital, £25,750 est. Regional A: W. G. Plant (F), 40 Eastbourne-terr., W2.

Colwyn Bay.—Automaten Distributors, Ltd., Llandudno, considering erection of new factory. A: B. Hallwood Lingard, & Associates (F), Colwyn Bay.

Colwyn Bay.—TC approved plans for new factory, stores, offices and canteen at Mochdre for J. K. Smit & Sons.

Consett.—UDC considering £20,000 scheme for extending pavilion in Sherburn Park. Plans by S: E. Simpkin.

Darlington.—TC to negotiate for purchase of 45 acres at Lascelles Park for housing purposes. Boro' A: E. A. Tornbohm (A), AMTPI, Central-bldgs., Darlington.—Vaux & Associated Breweries, Ltd., The Brewery, Sunderland, to develop land at Geneva-rd. for housing purposes. A: N. H. Cox (A).

Devon.—EC proposes following programme for 1960-61:—Torquay RC sec. sch. (£93,456), Hartland sec. sch. (£49,368), Plympton Woodford infants' sch. (£32,186), Brixham sec. sch. (£101,376), Newton Abbot RC prim. sch. (£37,268), Churston Ferrers grammar sch (second instalment, £55,000), Sidmouth sec. sch. (£143,824), Harbertonford voluntary aided sch. (£32,186). And for 1961-62:— Cullompton sec sch. (£93,456), Plymstock Dunstone-hse. prim. sch. (£42,350), Tiverton county prim. sch. (£42,350), Newton Abbot Milber infants sch. (£32,186), Paignton girls' sec. sch. (£101,376), Plymstock modern grammar sch. (£110,000), Bideford girls' sec. sch. (£101,376), and Honiton area voluntary sch. (£22,869).

Disley.—UDC approved in principle 15 aged persons' bungalows at back of Stanley-terr., Buxton-rd.

Doncaster.—EC proposes erection of Hyde Park county sec. sch., £234,640 est., and Cantley RC grammar tech. sch., £161,568 est., in 1960/61 programme.

Droxford, Hants.—MH&LG approval promised for 42 dwellings in 1959—24 at Bishop's Waltham, 10 at Wickham and eight at West Meon for RDC.

Droxford, Hants.—SE Hampshire Area Planning Com. recommend approval to CC's plan for fire station at Lower-la., Bishop's Waltham.

Dudley.—BC to prepare quantities for 41 dwellings at Rosland estate and 126 at Wrens Nest-rd.

Dukinfield.—TC approved layout plans for Yew Tree-la. No. 3 estate.

Eastry, Kent.—RDC plans 50 old people's bungalows this year.

Eccles.—TC approved plans for church and presbytery north of Liverpool-rd., nr. Aldred-st. for RC Diocese of Salford.

Eston.—A. Robinson (Contractors), Ltd., Linthorpe-rd., Middlesbrough, to erect 28 houses nr. California-rd., Eston. A: P. R. Middleton & Ptnrs. (A), 111 Albert-rd., Middlesbrough.

Fareham, Hants.—SE Hampshire Area Planning Com. approved UDC's application to build 49 houses at Winnards Park estate 102 houses and bungalows at Fairfield-ave. extension and 16 dwellings at Birchen-rd., Locksheath.

Felling, Co. Durham.—Hinge's Enterprises, Ltd., Elswick-rd., Newcastle-on-Tyne, have submitted proposals to local authority for converting Corona Cinema into shops.

Gateshead.—EC to carry out extensions to Dukehouse Wood camp sch. Boro' E: G. F. Winters.

Gateshead.—Arthur & Kirkup (L), 13 Swinburne-st., Gateshead, are A for proposed distribution depot and offices, Team Valley trading estate, for Renold Chains, Ltd., Scotswood-rd., Newcastle-on-Tyne.

Golborne.—UDC proposes 12 houses for sale on site adjoining Council Offices at Newton-rd., Lowton.

Halesowen.—TC proposes 22 houses at Hillwood-rd.

Halifax.—EC proposes medical block and canteen accommodation at CofE sec. mod. sch. and final stage of tech. high sch. at Illingworth in 1959 programme, £16,000 and £18,000 est.

Heanor.—UDC approved erection of 24 houses and 24 bungalows at Aldercar estate and four bungalows at corner of Roper-ave., and Avis-ave.

Hexham.—S (W. A. Hancocks) prepared alternative schemes for new swimming baths for UDC, (1) for pool 75ft. by 30ft. to cost £30,000, and (2) for pool 110ft. by 42ft. to cost up to £150,000.

Jarrow.—Durham County EC to erect new mod. sch. at Perth-ave. on site of 13 acres. County A: G. R. Clayton (F), South-st., Durham.

Kendal.—TC approved layout for 32 flats and 168 houses at Sandylands estate.

Kent.—The Education Com. recommends that financial provision should be made for the following projects:—*Prim. schools:* Eastry County, £18,500; St. Nicholas-at-Wade C.E., £19,500; East Malling County, £38,500; Stone C.E. £32,500; Gravesend King's Farm County £28,000. *Sec. schools:* Chislehurst and Sidcup tech. girls', £83,000; Rochester, Temple boys', £210,000; Canterbury tech. girls', £68,300; Ashford Duncan Bowen proposed sec., £128,500; Dover grammar girls', £35,500; Bexley tech. boys', £212,000.

Leeds.—TC appointed J. G. L. Poulson & Ptnrs. (L), 29 Ropergate, Pontefract, as A for South Leeds comprehensive sch.

Liverpool.—Regional Hospital Bd. appointed Quiggin & Gee (F/A), 11 Old Hall-st., Liverpool, as A for twin operating theatre and surgical ward units at St. Helen hospital, and Harry Banister & Ptnrs. (F), 67 Rodney-st., Liverpool, as A for additional theatre and ancillaries at Walton hospital. Approved revised est. of £32,227 for medical outpatients' dept. at Broadgreen hospital.

Llandudno.—Crosville Motor Services, Ltd., considering erection of permanent bus station.

Lytham St. Annes.—Plans submitted to BC: New church at St. Leonards-rd., St. Annes, for St. Margaret's Church Non-Statutory Council.—New hotel at corner of Blackpool-rd. and Queensway for Dutton's Blackburn Brewery, Ltd.

Manchester.—Regional Hospital Bd. proposes new casualty dept. at Bury General Hospital. A: Messrs. C. B. Pearson & Son, 24 Loxford-st., All Saints, Manchester.—A. Matthews (Salford), Ltd., 115/117 Chester-rd., proposes erection of two-storey storage and distribution depot and offices at 4 Great Jackson-st. and 2/4 Silver-st., Knott Mill.

Manchester.—TC approved erection of single-storey showroom and office adjoining 1084 Oldham-rd., Newton Heath for Cyl-lec Supplies, Ltd. Plans submitted by Joshua Bury Earle & Co., 1082 Oldham-rd., Newton Heath.—Approved rebuilding of existing petrol-station, repair garage, showroom and office at 111/121 Palatine-rd., Northenden for Barrow Motor Co.

Manchester.—Williams Motor Co., Ltd., propose single-storey car showroom and garages at 325/327 Deansgate. A: Arthur Farebrother & Ptnrs. (A), 99 Seymour-gro., Manchester.

Mansfield.—Plans submitted to BC for 3 blocks of aged persons' bungalows at 'Beech Hill,' Chesterfield-rd. South, for Notts CC.

Marple.—Cheshire CC proposes new police-station.

Matlock.—UDC proposes 20 houses on site nr. The Study, Bonsall, 10 off Northwood-la., Darley Dale, and 10 at South Darley.—Approved plans for 110 houses and 40 bungalows at Cavendish Park estate for Woodvale Development Co., Ltd.

Middlesbrough.—TC to proceed with scheme for new crematorium. Boro' E: J. A. Kenyon, Municipal-bldgs., Middlesbrough.

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Middlesbrough.—TC to proceed with scheme for new central depot. Site and foundation works will be done by direct labour, but tenders are to be obtained for erection of workshops (£91,000), and offices (£34,000). Plans by Boro' E (J. A. Kenyon). QS: Turner & Townsend, 71 Linthorpe-rd., Middlesbrough. Constg. engrs. for heating and electrical work: Powell Duffryn Technical Services, Proctor-hse., The Side, Newcastle-on-Tyne.

Middlesbrough.—Garbutt, Archibald & Archibald (L/A), 23 Albert-rd., Middlesbrough, are A for 24 bungalows at Aylton-dr. for T. Duncanson & Sons, Ltd., builders, Acklam-rd., Middlesbrough, 64 houses and garages at Ruskin-ave. for E. T. Sweeting & Sons, builders, Back Haymore-st., Middlesbrough, and offices, store and workshop, Davison-st., for H. Robertson, Lt.—Plans approved for third stage of Marks & Spencer's new store at Linthorpe-rd. A: Norman Jones, Sons & Rigby (F/A), Lord-st., Southport.—A for proposed conversion of Hippodrome Cinema, Wilson-st., into dance hall for Circuits Management Assn. are Lennox Paterson & Son, Regent-st., Glasgow.—Waddington & Hannan, builders, Daleston-ave., Linthorpe, to erect eight flats at Daleston-ave. to plans by T. A. Crawford (L), 80 Borough-rd., Middlesbrough, who is also A for new church at Westbourne-gro., North Ormesby, for Canon T. A. Nolan.

Middlesbrough.—K. J. Caton (A), Education A, Woodland-rd., Middlesbrough, to prepare plans for proposed Stockton-rd. RC (Special Agreement) sec. sch.

New Forest.—Preliminary plans approved for new police station at Totton.—HO approved start on new magistrates' court in 1959-60. Court and police station designed in one unit.

Newburn-on-Tyne.—Westerhope golf club-house, owned by UDC, to be rebuilt at cost of £20,000. Plans and estimates being prepared S: J. A. Weatherley.

Nottingham.—TC approved plans for new parish church at Woodthorpe for Church Commissioners, £30,000 est. A: Reginald W. Cooper (F), Russell-hse., Talbot-st., Nottingham.

Nottingham.—TC to prepare plans for further extensions to Guildhall.

Oldham.—BC approved plans for 8 bungalows and 12 garages between Greenacres-rd. and Constantine-st. for S. Taylor.

Oldham.—Manchester Regional Hospital Bd. proposes extensions to General Hospital, £100,000 est. Work to be carried out in stages.

Oswestry.—TC proposes 200 dwellings in 1959 programme.

Oswestry.—RDC proposes 10 houses at Llynclys.—TC to prepare layout for factory development at Whittington-rd.

Penrith.—UDC considering erection of 64 houses. S: F. Birkbeck.

Poole, Dorset.—First priority capital works for 1959-60 in Council's new five-year plan costing £7 million include £460,000 roads and engineering projects, new flats at Sterte and Skinner-st. (£331,000); central clinic (£100,000) on Civic Centre site at Park Gates; new girls' grammar sch. and improvements at Henry Harbin sch. (£238,000); new cafe at Poole Park (£25,000). Second priority:—£148,000 more sewage works and road improvements and new garages at Branksome depot and new housing at Turlin Moor (£60,000).

Richmond, Yorks.—D. Clarke Hall (F), 6 Mason's-yard, Duke-st., SW1, appointed A for additions to Richmond high sch. for North Riding EC.

Ringwood.—Outline planning permission sought by RDC for two blocks of four one-bedroom flats for aged persons at The Quomp. Negotiations in hand for purchase of land.

Romsey and Stockbridge.—RDC proposes 27 houses in current year as follows: 7 one-bedroom and 8 two-bedroom bungalows at King's Somborne, 2 two-bedroom bungalows at Over Wallop, 4 one-bedroom flats at Houghton and 6 one-bedroom flats at Braishfield.

Rugby.—RDC proposes 16 dwellings on Long Lawford caravan site.

Rugby.—TC approved layout for 31 dwellings at Featherbed-la. site, Abbots Farm estate.

Runcorn.—Plans submitted for licensed premises at junction of Birch-rd. and Boston-ave. for Peter Walker (Warrington), Ltd.

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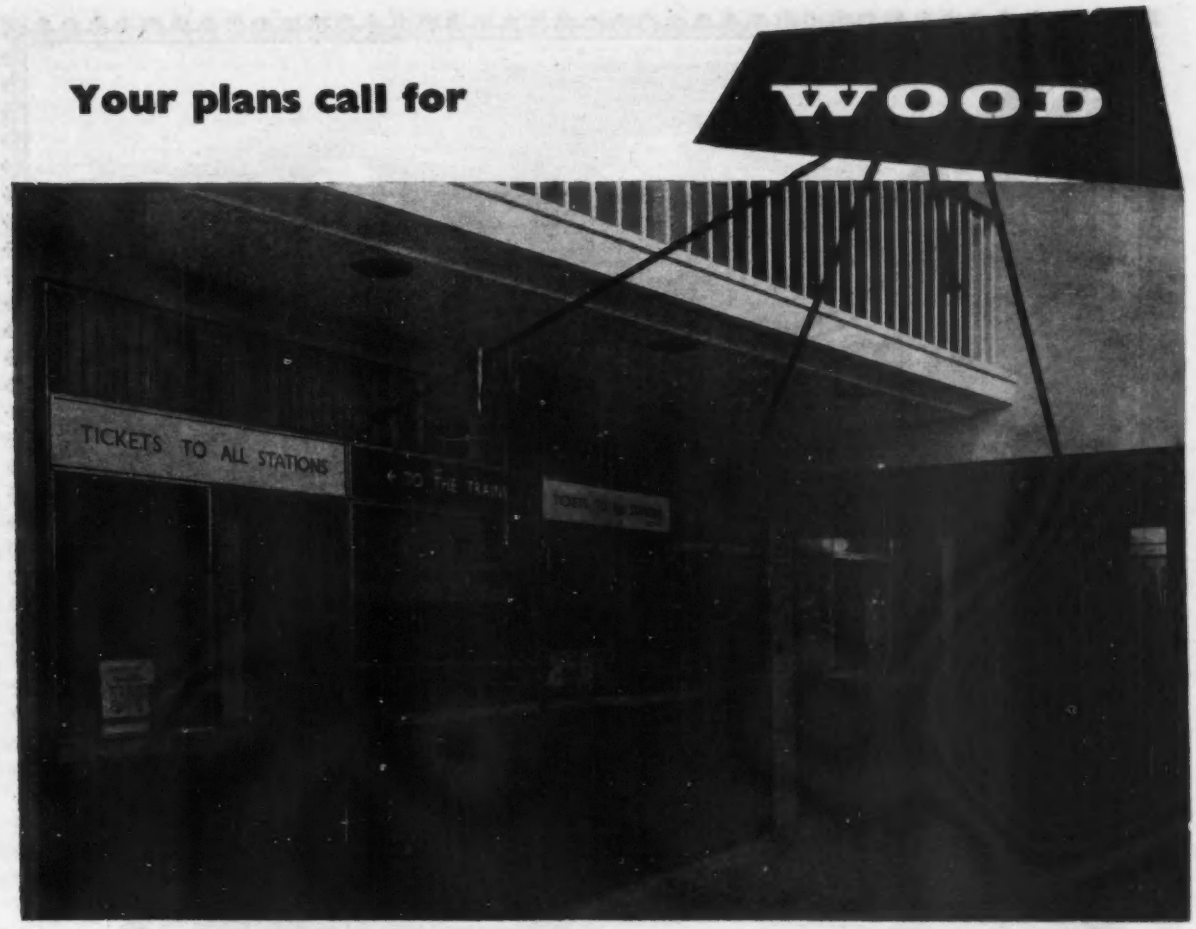

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Runcorn.—UDC approved plans: 28 houses and six bungalows at Oxford-rd. for G. Weston, 28 Stanley-st., Runcorn; 16 bungalows at Seala. for William Clare & Son, 94 Stopes-rd., Little Lever, nr. Bolton.

Salisbury.—Western Area Com. of SW Metropolitan Regional Hospital Bd. approved following capital schemes at Odstock hospital. *1959/60:* Resident Medical Officers' staff quarters; £18,000 est. *1960/61:* Twin operating theatres for plastic and oral surgery, £28,000 est. *1961/62:* Enclosing corridors, extending Dorset ward and changes to two blocks to provide Department of Physical Medicine, £29,500 est.

Shildon.—UDC seeks permission to erect 75 houses during current year. Plans by S.

Southport.—TC to seek Ministry approval for home for aged persons at Ainsdale.

Stalybridge.—T. Wall & Sons, Ltd., propose erection of cold storage factory and vehicle fitting shop at Millbrook.

Stanley, Co. Durham.—UDC considering proposals by Percy L. Browne, Son & Harding (F/A), Pearl-bldgs., Northumberland-st., Newcastle-on-Tyne, for extending Council Offices.—Thomas Armstrong, Ltd., builders, 16 Robson-st., Newcastle-on-Tyne, propose 18 houses at Tanfield.

Stockport.—EC proposes sec. mod. sch. in south-west area of town, £150,000 est., and RC sec. sch. in southern part of town, £148,000 est., in 1960/61 programme. R.C. Authorities propose sec. mod. sch. at Denby-la., Heaton Norris, £146,000 est. A: Arthur Farebrother & Ptnrs., 99 Seymour-gro., Old Trafford, Manchester.

Stoke-on-Trent.—TC approved scheme for further extensions at Kings Hall, £66,000 est.

St. Neots, Hunts.—BC proposes scheme of town development to increase population by 3,000. Willesden, Twickenham, Acton, Southgate and Wood Green BCs have expressed interest in scheme, which would involve building 1,000 houses, as well as factories, shops, etc.

Warrington.—Managers of Woolston CP sch. propose new swimming pool.—EC proposes new tech. schools to replace Beamont boys' and Oakwood girls' sec. tech. schools, £205,000 and £197,000 est.; English Martyrs RC sec. for girls, £159,000 est.; improvements to Bewsey boys' and girls' sec. mod. schools, £80,000 est.; extensions to St. Albans RC infants' sch., £34,000 est., and new sch. to replace St. Barnabas CofE sch., £54,000 est.

Wednesbury.—TC approved plans for new factory at Holyhead-rd. for B. V. Engineering, Ltd., 35 Dudley-rd.; five factory buildings at Holyhead-rd. industrial estate for Jacon Property Co., Ltd., Central-chbrs., Bearwood-rd., Smethwick.

Whitley Bay.—Waring & Netts (A), Jesmond-rd., Newcastle-on-Tyne, prepared outline proposals for shopping and business precinct at Claremont-rd., Whitley Lodge estate. Cordingley & McIntyre (F), Owengate, Durham, appointed A for TC's proposed crematorium.

Winsford.—Fine Dyestuffs and Chemical, Ltd., Calder-st., Manchester, propose new factory.

Worcestershire.—CC approved building programme for 1959-60 which includes £83,000 for new divisional police headquarters and £30,000 for new Court House, both at Malvern, and £900,400 for school building.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

Batley.—New bus station at Coulters Yard for Yorkshire Woollen District Transport, Co., Ltd. *Peter Ellis & Sons, Ltd., Warwick-rd., Batley.

Belper.—Works for RDC:—Two houses and four bungalows at Jeffreys-la., Crich, and 12 houses at Lea. *J. Moorhouse, Belper. £8,498 and £17,970.—Eight houses and two bungalows at New Zealand-la., Duffield. *Vic Hallam, Ltd., Langley Mill. £13,084.

Birkenhead.—New RC prim. sch. at Old Bidston-rd. for RC Diocese of Shrewsbury. *J. B. Johnson, Ltd., 17 Overton-st., Liverpool.—Erection of Charing Cross Methodist Church at Claughton-rd. for Trustees. *Wm. Thornton & Sons, Ltd., 38 Wellington-rd., Liverpool. £43,392.

Birmingham.—Tenders accepted by City C in January, 1959. City A: A. G. Sheppard Fidler (F), AMTPI:—52 lock-up garages at Woodthorpe Farm estate. *M. Woods, First Acres, Dormston-la., nr. Inkberrow, Worcs. £8,247.—Nine dwellings at Manor-rd., Witton. *Direct labour. £17,612.—34 dwellings, six shops and six garages, Highgate (formerly Gooch-st.), redevelopment area, Unit 402. *George Wimpey & Co., Ltd., Hammersmith-gro., W6. £97,512.—Six dwellings, Beeches-rd., Perry Barr. *Direct labour, £11,055.— 11 dwellings, 13 shops and garages, Firs estate. *Geo. Stubbings, Ltd., 210 Streetly-rd., Erdington, Birmingham, 23. £67,020.—Seven dwellings, Marroway-st., Ladywood. *Direct labour. £14,557.—113 dwellings and 31 garages, Acocks Green House estate. *C. Bryant & Son, Ltd., 65 Whitmore-rd., Birmingham, 10. £215,278.—12 dwellings and one single-storey shop, Kingshurst Hall estate. *H. Dare & Son, Ltd., 962-966 Alum Rock-rd., Birmingham, 8. £20,500.—114 dwellings, one tenants' room and 45 garages, Firs estate. *Geo. Stubbings, Ltd., 210 Streetly-rd., Erdington, Birmingham, 23. £232,675.—44 dwellings and 14 garages, Newton (formerly Summer-la.) redevelopment area, units 101 and 102 (parts). *Alfred Langley, Ltd., Manor-Farm-rd., Tyseley, Birmingham, 11. £104,136.—57 dwellings, Moor Green-la., Moseley. *Blakeway (Contractors), Ltd., Chapel-st., Colley Gate, Cradley, Staffs. £80,752.—152 dwellings and 21 garages, Coley's-la., Turves Green. *Direct labour. £301,689.—73 dwellings and 41 garages, Birchfield-rd., Perry Barr. *Geo. Stubbings, Ltd., 210 Streetly-rd., Erdington, Birmingham, 23. £149,237.—15 dwellings and 15 shops, Kitsland-rd., Shard End. *Hunt & Pearcey, Ltd., 34 Ulverley Green-rd., Olton, Solihull, Warwicks. £73,140.—Police recreational centre, Tally Ho, Edgbaston. *Percy W. Cox, Ltd., Grove-la., Handsworth, Birmingham, 21. £73,250.—Marsh Hill open air sch.: two practical rooms. *J. & F. Wooton, Ltd., Pinfold, Bloxwich, Walsall. £8,493.—Longmeadow girls' mod. sch.: extensions. *Direct labour. £8,358.—Kings Norton girls' grammar sch.: extensions. *F. Deeley, Ltd., 210 High-st., Harborne, Birmingham, 17. £24,221.—Tinkers Farm mixed mod. sch.: alterations and extensions. *F. Deeley, Ltd., 210 High-st., Harborne, Birmingham, 17. £53,344.—Waverley grammar sch. annexe: Camp Hill girls' sch.: adaptations and improvements. *H. M. Grant & Co., Ltd., Pershore-rd., Birmingham, 30. £5,345.—Cherrywood mixed mod. sch.: adaptations. *H. M. Grant & Co., Ltd., Pershore-rd., Birmingham, 30. £5,205.

Blyth.—Steel frame for turbine house and boiler house buildings at Blyth 'B' power station, for Central Electricity Generating Bd. *Cleveland Bridge and Engineering Co., Ltd., Darlington.

Cardiff.—Fixed price tenders for erection of Ty-Celyn sec. mod. sch. adjacent to Llandennis-rd. for City C. City A: J. Dryburgh (A), ARICS, AMTPI, 12 Park-pl., Cardiff. Ch. QS: C. Lockton, ARICS. *Direct labour. £162,631.

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Hammersmith.—New office building at Woodger-rd., Goldhawk-rd., W12. A: Jack Godfrey-Gilbert (F), 1-3 The Broadway, Wimbledon, SW19. *Griggs & Son, Ltd., 56 Victoria-st., SW1. (All sub-trades let.)

Ilford.—10 flats and six bungalows at Radnor-cres. for BC. Boro' E: H. J. Mulder, MICE, MIMunE, ARICS. ‡Dennis Development Co., Woodford Green, Essex. £17,694.

Isle of Ely.—Nine bungalows and 10 houses at High Barns, Ely. E&S: John G. Shilston. ‡Buckingham & Sparrow, Wisbech-rd., Littleport, Cambs.

Lambeth.—Fixed price tenders for improvements and conversions to various properties for MBC. Director of Housing: C. C. Carter, FRICS. *S. Varney & Co., Ltd. £27,550 (28 units) and £15,979 (14 units).

Lambeth.—Nine-storey office building at 21 Albert Embankment, SE1, for Wates, Ltd. A: Frederick Gibberd & Ptnrs. (F), AMTPI. Constg. engrs.; Felix Samuely & Ptnrs. *Wates, Ltd., 1258/1260 London-rd., Norbury, SW16.

Leeds.—Erection of Moor Grange county sec. sch. for TC. *Wm. Airey & Son (Leeds), Ltd., Eldon-hse., Leeds. £160,310.

Lewisham.—16 maisonettes on site of 1-31 Legge-st. for MBC. Boro' A: M. H. Forward, (F), FRICS. QS: Messrs. Oswald E. Parratt.

	Fluctuating	Fixed price
Patman & Fotheringham, Ltd.	£41,811	£42,337
Bridge, Walker, Ltd.	39,857	40,235
T. R. Roberts (Builders), Ltd.	39,780	39,930
Mullen & Lumsden, Ltd. ..	39,644	40,244
Halse & Sons, Ltd.	39,178	39,498
T. Cutler & Sons, Ltd. ..	38,800	39,401
Herbert Richardson & Sons, Ltd.	38,790	39,133
Thomas & Edge, Ltd.	38,727	39,045
J. A. Proctor, Ltd.	38,090	38,390
Henry Kent (Builders), Ltd...	37,812	38,262
‡S. G. & A. Agombar (fixed price tender)	36,933	37,238

Lincoln.—Fixed price tenders for 74 dwellings and 10 garages, Ermine East estate and Outer Circle-dr. for City C. City A: R. R. Alexander (F), MTPI. QS.: A. E. Thornton-Firkin & Ptnrs. *Direct labour. £73,428.

Lindsey.—Second instalment of Foxhills sec. sch., Scunthorpe, for CC. County A: A. R. Clark (A), AMTPI. *W. Eyre & Son, 5 St. Pauls-rd., Ashby, Scunthorpe. £70,201.

Liskeard, Cornwall.—81 dwellings and nine garages for TC. †Selleck Nicholls & Co., Ltd. £139,105.

Liverpool.—Conversion of 'Mayfield,' Church-rd., Wavertree, as spastic centre for Liverpool and District Spastic Fellowship. *Wm. Hall & Sons, Ltd., 60/62 Christain-st., Liverpool.

¶**London (Air Ministry).**—New works contracts to value of £500 or over for week ended February 20:—*Building work:* Wethersfield, Essex, G. E. Wallis & Sons, Ltd., 231 Strand, WC2; Chicksands, Beds., Robert Marriott, Ltd., Midlands Works, Rushden, Northants. *Civil engineering:* Lakenheath, Suffolk, John Laing & Son, Ltd., Mill Hill, NW7; Bovingdon, Herts., F. R. Hipperson & Son, Ltd., Invicta-hse., Wantz-rd., Dagenham, Essex. *Resurfacing work:* Little Rissington, Glos., O. J. Elliott & Co., Ltd., 339 Badminton-rd., Winterbourne, Bristol; West Malling, Kent, Chittenden & Simmons, Ltd., Ditton Place, Larkfield, Maidstone, Kent. *Artificers work:* Oakington, Cambridge, etc., Kerridge (Cambridge) Ltd., Sturton-st., Cambridge. *Heating and hot water services:* Lakenheath, Suffolk, Barrett & Wright, Ltd., 1A St. Miles Alley, Norwich, Norfolk.

¶**London (MoW).**—Contracts placed for week ended February 13:—*Ayrshire:* Post Office, Burns Statue-sq., Ayr, adaptations to form branch Post Office, D. & J. Milligan (Ayr), Ltd., 46 Kyle-st., Ayr. *Herefordshire:* MoS Depot, Rotherwas, Hereford, adaptations, Wm. Bolt & Sons, West-st., Hereford. *Kent:* Government Buildings, Tunbridge Wells, conversion to oil fired heating, F. Hayden, Ltd., 6-8 Vale-rd., Tunbridge Wells. *London:* Govt. of N. Ireland, 13 Regent-st., SW1, builders' work, Clemens Bros., Ltd., 77 Derby-rd., Forest Gate, E7; GPO Telephone, Cornwallis-rd., N18, demolition of existing and provision of new workshops, Buckingham & Sons, Ltd., Buckingham-chbrs., 45 Vivien-ave., NW14; Electra-hse., Victoria Embankment, WC2, Internal cleaning and decoration work, South London Decorators, Ltd., 9 Streatham High-rd., SW16; British Museum, WC1, repair of stone paving, Shaw &

Co. (Structural Restorations), Ltd., 8 Whitecross-st., EC1; West Yard, King Edward Building, King Edward-st., EC1, repair and resurfacing, Limmer & Trinidad Lake Asphalt Co., Ltd., Trinidad Lake-hse., 232 Vauxhall Bridge-rd., SW1; Baynards-hse., Chepstow-pl., W2, new twin lift shaft and motor room, Gee, Walker & Slater, Ltd., PO Box No. 87, 100 Park-la., W1. *Midlothian:* Min. Agriculture & Fisheries, Eskgrove, Lasswade, conversion of boiler plant to oil burning, Clyde Fuel Systems, Ltd., Queen Elizabeth-ave., Glasgow, SW12. *Surrey:* Automatic telephone exchange, Byfleet, erection, Sir Lindsay Parkinson & Co., Ltd., 6 Lambeth-rd., St. George's-circus, SE1; Wootton-hse., Dorking, strengthening works to floors, James Longley & Co., Ltd., Crawley, Sussex. *Yorkshire:* Iveson Approach, Ireland Wood, Leeds, erection of postmen's district office, Robt. R. Roberts (Leeds), Ltd., 122 Lower Wortley-rd., Leeds, 12.

¶**London (War Dept.).**—Works contracts placed for week ended February 13:—*Co. Down:* (Ballykinler), building, R. D. Pollock & Co., Ltd., Bangor, Co. Down. *Hampshire:* (Blackdown), kitchen equipment, Benham & Sons, Ltd., London; (Southampton), boiler house, R. W. Dowman, Ltd., Southampton. *Kent:* (Ashford), miscellaneous, J. J. Clayson & Son, Ltd., Lyminge. *Sussex:* (Chichester), miscellaneous, G. A. Neal & Sons, Chichester. *Surrey:* (Byfleet), gardens, G. Hone & Son, Ltd., Farnham. *Warwickshire:* (Long Marston), boiler re-tubing, Danks of Netherton, Ltd., Dudley. *Wiltshire:* (Tidworth), electric cables, Cable Jointers, Ltd., London.

Middlesbrough.—20 houses at Easterside for TC. Boro' E: J. A. Kenyon. *Moore & Cartwright, High-st., Norton-on-Tees. £30,198.

Newark.—14 houses at Collingham for RDC. *E. Coleman, 172 London-rd., Balderton, Newark. £20,101.

Northumberland.—Welfare home to accommodate 60 beds at Thomas Taylor Homes, Stannington, for CC. County A: C. C. Brown (A), County Hall, Newcastle-on-Tyne. *Ashington Industrial Co-op. Soc., Ltd., Ashington. £60,554.

Plymouth.—Pilot scheme of 24 old people's flatlets and warden's flat for TC. ‡Godolphin Co., Ltd.—100 houses at Southway for TC. *Selleck Nicholls & Co., Ltd. £134,177 (fixed price tender).

Reigate.—Fixed price tenders for six old people's bungalows at 'Greystones,' Hardwicke-rd., Redhill, for BC. Boro' E&S: George G. Sanderson, AMICE. S: C. A. G. Wicks, BEM (L). Bird & Cargill, Ltd., £9,406; H. G. Winteridge & Co., Ltd., £9,074; *Mitchell (Chipstead), Ltd., Station-yard, Chipstead, £8,560.

Richmond, Surrey.—Firm price tenders for 42 bed-sitting room flats at North-rd., Kew, for BC. Boro' E&S. QS: N. O. Walmsley, FRICS, 4 The Green, Richmond, Surrey. *Ellis Berg Contractors, Ltd. £58,289.

Rochdale.—Rebuilding of Gale Inn, Whitworth-rd. for Masseys Burnley Brewery Co., Ltd. *G. W. Dawson & Co., Ltd., Manchester.

Rotherham.—Three-storey block of flats and nine garages at Herringthorpe Valley-rd. for TC. *O. Weaver & Sons, Ltd., Harlington-rd., Mexborough, Rotherham.

Rugby.—39 dwellings at Abbotts Farm estate for TC. *Clarke Bros., Ltd., Leamington Spa. £63,531.

Sheffield.—150 three-storey maisonettes and flats, 170 garages and public house at Park Hill redevelopment site for City C. ‡W. J. Simms, Sons & Cooke, Ltd., Sheffield. £556,750.

Sittingbourne and Milton.—Fixed price tenders for eight old people's bungalows at Staplehurst for UDC. E&S. QS: Rider Hunt & Ptnrs., Gillingham, Kent. *T. R. Swann & Son, Ltd., Staplehurst-rd., Sittingbourne. £9,069.

Stone.—10 houses, four bungalows and six garages at Stone-rd., Eccleshall, for RDC. *Madew & Wardle, Ltd., Market-la., Newcastle-under-Lyme. £23,341.

Swansea.—Second instalment of Penlan multilateral sch. for CBC. Boro' A. QS: Messrs. O. E. Parratt, Swansea. *Gee, Walker & Slater, Ltd., Bridgend. £145,035.

Swansea.—Erection of Trallwn jun. county prim. sch. for CBC. Boro' A. *E. Turner & Sons, Ltd., Swansea. £37,075.

Swansea.—Erection of Mayals CP sch. for CBC. Boro' A. *Bennett Bros. (Contractors), Ltd., Swansea. £456,622.

Wallasey.—12 houses and 14 garages at Frobisher-rd., Leasowe, for CBC. Boro' A: W. P. Clayton (A). Quantities by own office. *F. Whitmore & Co., 131 Upton-rd., Moreton, Wirral.

Wokingham.—New maternity unit at Wokingham hospital for Oxford Regional Hospital Bd. Regional A: W. J. Jobson (A), 43 Banbury-rd., Oxford. QS: H. J. Ridge & Ptnrs., FARICS, 42 Hythe Bridge-rd., Oxford. *J. M. Jones & Sons, Ltd., Maidenhead. £90,000.

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OFFICIAL ANNOUNCEMENTS

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PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

This cancels previous advertisement in our issue of February 20th, 1959.

COUNTY BOROUGH OF SOUTHAMPTON.

Southampton C.B.C. invites TENDERS for the following contract on Bills of Quantities which will be available early in MARCH.

Contract B.330.—24 TRADITIONAL FLATS, Type S/2R, in 3 No. THREE-STOREY BLOCKS at the corner of Portswood-road and Sirdar-road.

Applications for Tender Documents should be received by the Borough Engineer, Civic Centre, Southampton, by 10 a.m., 2nd MARCH, 1959.

COUNTY BOROUGH OF SOUTHPORT.

The Council invite TENDERS for the INSTALLATION OF A LOW PRESSURE HOT WATER HEATING SYSTEM at Nos. 44/46, Hoghton-street.

The Specification and Drawing may be obtained from the Borough Architect and Town Planning Officer's Department, 99/105, Lord-street, on payment of £2 2s. 0d. (which sum will be refunded on receipt of a bona fide tender).

Tenders to be delivered to the undersigned by 12th MARCH, 1959.

R. EDGAR PERRINS,
Town Clerk.

CITY OF NEW SARUM.

BISHOPDOWN ESTATE, SALISBURY.

66 TRADITIONAL DWELLINGS AND 31 GARAGES.
46 TRADITIONAL DWELLINGS AND 24 GARAGES.

TENDERS are invited for the construction of:—

(a) 32 HOUSES, 8 BUNGALOWS, 26 FLATS (18 IN THREE STOREYS) AND 31 GARAGES;

(b) 24 HOUSES, 22 FLATS AND 24 GARAGES

at the Bishopdown Estate, Salisbury.

Tenders for these schemes are to be on a "Fixed Price" basis and on Bills of Quantities which will be available on Wednesday, 18th February, 1959. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer, The Council House, Salisbury, upon payment of £2 deposit which will be refunded upon receipt of a bona fide tender.

Tenders for each of the above schemes, in plain sealed envelopes provided must be delivered to the undersigned not later than noon on THURSDAY, 12th MARCH, 1959.

GEO. RICHARDSON,
Town Clerk.

The Council House,
Bourne Hill,
Salisbury.

MALVERN URBAN DISTRICT COUNCIL.

ERECTION OF TRADITIONAL HOUSES.

FIXED PRICE TENDERS are invited for the ERECTION AND COMPLETION OF 8 PAIRS OF TRADITIONAL HOUSES at Beauchamp-road Estate, Malvern Link.

Drawings, Specifications, Schedules of Rates and Form of Tender may be obtained from Mr. C. C. Judson, Surveyor and Water Engineer, The Council House, Malvern, on payment of a deposit of £2 2s. 0d., which will be returned after receipt of a bona fide tender.

Tenders on the prescribed form in the envelope supplied, must be delivered to the undersigned not later than noon on the 17th MARCH, 1959.

The Council do not bind themselves to accept the lowest or any tender.

J. BULMAN,
Clerk of the Council.

The Council House,
Malvern.
17th February, 1959.

BOROUGH OF EALING.

TENDERS are invited for the ERECTION OF 6 FLATS on Thompson's Cottages site, Church-lane, W.5, including the demolition of existing cottages.

Tender documents obtainable from Borough Surveyor, Town Hall, Ealing, W.5, upon payment of £5, returnable on receipt of a bona fide tender.

Tenders must be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than 9.30 a.m. on the 19th MARCH, 1959.

E. J. COPE-BROWN,
Town Clerk.

BOROUGH OF TOTTENHAM.

WHITE HART LANE REDEVELOPMENT, N.17.

ERECTION OF 212 DWELLINGS IN THREE TEN-STOREY BLOCKS (R.C. FRAME) AND TWO FOUR-STOREY BLOCKS, GARAGES, STORES, ETC.

TENDERS are invited from firms capable of undertaking the whole contract, including reinforced concrete construction. Applicants to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than 4th MARCH, 1959, quoting "B" together with £2 2s. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposits, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of the tenders.

The Council do not bind themselves to accept the lowest or any tender.

M. LINDSAY TAYLOR,
Town Clerk.

Town Hall,
Tottenham, N.15.
16th February, 1959.

THE UNITED LIVERPOOL HOSPITALS.

The Board of Governors of The United Liverpool Hospitals is proposing to ERECT at the Liverpool Royal Infirmary a new OPERATING THEATRE BLOCK AND LECTURE HALL at a total estimated cost of over £100,000. It is proposed to invite TENDERS for the main contract from a limited list of building contractors. Firms with the necessary facilities and organisation who wish to be considered for inclusion in the list are invited to apply on a special form obtainable from the Secretary, The United Liverpool Hospitals, 80, Rodney-street, Liverpool 1, on whom the completed form should be returned not later than the 11th MARCH, 1959.

It is expected that work on the contract will commence in August or September, 1959, and contractors who are invited to tender should be able, if so required, to complete the work within twelve months of the occupation of the site.

SUNDERLAND EDUCATION AUTHORITY.

BEDE GRAMMAR SCHOOLS HEATING.

TENDERS are invited for improvements and extensions to the heating system.

Tender documents may be obtained from S. W. Milburn & Partners, 9 The Esplanade, Sunderland. Sealed tenders, to be returned in the envelope provided, should be delivered to The Town Cerk, Town Hall, Sunderland, by TUESDAY, 24th MARCH, 1959.

G. S. McINTIRE,
Town Clerk.

THE UNITED LIVERPOOL HOSPITALS.

The Board of Governors of The United Liverpool Hospitals is proposing to establish prescribed lists of building and decorating contractors who will be given regular opportunity to tender for contracts in the following categories:—

(i) Contracts for building work costing between £1,500 and £10,000.

(ii) Contracts for building work costing between £10,000 and £30,000.

(iii) Contracts for building work costing between £30,000 and £100,000.

(iv) Contracts for works of painting and decorating only costing over £1,500.

Contractors who wish to be considered for inclusion in one or more of these lists should make application on a special form obtainable from the Secretary, The United Liverpool Hospitals, 80 Rodney-street, Liverpool 1, to whom the completed forms should be returned not later than the 11th MARCH, 1959.

SOUTHPORT AND DISTRICT WATER BOARD.

SCARISBRICK WATERWORKS CONTRACT NO. 21.

MILL BROW BUILDINGS.

FIXED PRICE TENDERS are invited for the ERECTION in brickwork and reinforced concrete of a Pump House, Engine House, Filter House, etc. (total capacity approximately 390,000 cu. ft.) at Mill Brow, Scarisbrick, near Southport.

Bills of Quantities, Tender Form and Drawings may be obtained after 28th FEBRUARY from the Engineer and Manager, 14 Portland-street, Southport, upon payment of a deposit of £3 3s.

Tenders must be delivered to the undersigned at the TOWN HALL, SOUTHPORT, not later than the first post on SATURDAY, 21st MARCH, 1959.

R. EDGAR PERRINS,
Clerk to the Board.

EAST SUFFOLK COUNTY COUNCIL.

ERECTION OF GRAMMAR SCHOOL AT BUNGAY.

The Council propose to invite TENDERS from selected builders, for the ERECTION of this school estimated to cost £120,000.

Drawings prepared under the direction of Mr. E. J. Symcox, F.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 5 p.m.

Building Contractors wishing to be considered should submit their names to the County Architect, County Hall, Ipswich, before the 6th MARCH, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th MARCH. Builders not selected will be notified at the same time. Tenders are required by the 9th APRIL, 1959.

WHISTON RURAL DISTRICT COUNCIL.

PROPOSED ERECTION OF 40 PERMANENT HOUSES.

The Council invite TENDERS for the ERECTION AND COMPLETION OF 40 PERMANENT DWELLING HOUSES of traditional construction on a site at Holt-lane, Whiston.

Drawings, Specification and Form of Tender may be obtained on application to the undersigned, at any time during office hours.

Tenders in plain, sealed envelopes, endorsed "40 Houses—Holt-lane," but otherwise bearing no mark or indication of the sender, must be received by the Clerk of the Council, at the undermentioned address not later than NOON on WEDNESDAY, 25th MARCH, 1959.

WATSON GARBUTT,
A.M.I.Struct.E.,
Engineer and Surveyor.

Council Offices,
Delph-lane,
Whiston,
Near Prescot, Lancs.

HUNTINGDONSHIRE.

EDUCATION COMMITTEE.

ST. NEOTS C.P. MIXED SCHOOL.

FIXED PRICE TENDERS are invited for the PROVISION OF A CLASSROOM with additional lavatories, access corridor and improvements to heating and stage lighting at Youth Centre.

Bills of Quantities, Drawings and Forms of Tender may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon.

Sealed Tenders in the endorsed envelope provided, with no other identification marks, must be delivered by 12 NOON on TUESDAY, 17th MARCH, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

COUNTY BOROUGH OF SOUTHAMPTON

invites quotations from Specialists for DETAIL, DESIGN, SUPPLY AND DELIVERY OF 234 No. HARDWOOD CASEMENT WINDOWS AND IRONMONGERY at Glen Eyre Secondary Girls' School, Southampton. To be dealt with under Clause 22 of the R.I.B.A. Contract (Nominated Suppliers). Forms and particulars from the Borough Architect on written application by 5th MARCH, 1959.

Quotation to the Town Clerk, Civic Centre, Southampton by noon on the 25th MARCH, 1959.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

The General Purposes Committee invite FIRM PRICE TENDERS for proposed alterations at Digbeth Civic Hall, Birmingham.

Bills of Quantities will be forwarded on payment of £2 2s. 0d. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham 1, to whom all cheques should be made payable. Applications should be made by 11th MARCH, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide tender or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. M.87), Council House, Birmingham 1, not later than 12 noon on MONDAY, the 13th APRIL, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. OREGG,
Town Clerk.

The Council House,
Birmingham, 1.

CITY OF CARDIFF.

CITY ARCHITECT'S DEPARTMENT.

FIXED PRICE TENDERS are invited for the following buildings to be completed by the 31st December, 1959.

1. HOME FOR 40 AGED PERSONS, Minehead-road, Llanrumney.
2. HOME FOR 36 AGED PERSONS, Gabalfa-avenue, Gabalfa.
3. HOME FOR 40 AGED PERSONS, Part 2, The Hendre, Llandaff.
4. BRANCH LIBRARY, approximately 3,600 ft. super, Countisbury-avenue, Llanrumney.
5. BRANCH LIBRARY, approximately 3,800 ft. super, Doyle-avenue, Fairwater.
6. NEW ASSEMBLY HALL, SERVERY AND ADMINISTRATION BLOCK, Rhydypennau C.P. School, Llanishen.

Contractors may tender for one or more contracts, but each contract must be tendered for separately.

Drawings and Conditions of Contract may be inspected at the City Architect's Department, 12, Park Place, Cardiff.

Specification, Bills of Quantities and Forms of Tender may be obtained from the City Architect upon payment of a deposit of £2 2s. 0d. for each contract.

Tenders will not be considered unless enclosed in the envelope provided, endorsed "Tender for .....," as the case may be, addressed to the UNDERSIGNED at the City Hall, Cardiff, and sent by REGISTERED POST so as to be received not later than the 9th APRIL, 1959, in respect of Scheme No. 3 and the 19th MARCH, 1959, in respect of the remainder.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

Completed Bills of Quantities are not to be submitted with the tender, but must be sent, completed in ink, so as to be in the hands of the City Architect within three days after written request following the opening of the Tenders.

The Council does not bind itself to accept the lowest or any tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
February, 1959.

AMENDED ADVERTISEMENT.

CITY OF WORCESTER.

WARNDON HALL, ADAPTATION AND EXTENSIONS TO FORM OLD PEOPLE'S HOSTEL.

TENDERS are invited for the above work which comprises ADAPTATIONS TO EXISTING BUILDINGS with a floor area of approximately 7,500 ft. super and NEW EXTENSIONS with a floor area of approximately 11,000 ft. super.

Documents obtainable from City Engineer and Surveyor, 22, Bridge-street, Worcester, on deposit of £3 3s. 0d. (cheques payable to "Corporation of Worcester") which will be refunded on receipt of a bona fide tender and the return of tender documents.

Tenders to be posted to the undersigned to arrive not later than TUESDAY, 24th MARCH, 1959.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

NEWMARKET URBAN DISTRICT COUNCIL.

TENDERS.
32 FLATS IN WINDSOR-ROAD.

TENDERS are invited for the ERECTION of the above to be built in traditional construction on a site on the Houldsworth Valley estate.

The work to be carried out includes the whole of the site preparations, pavings, drainage and services.

The work is split into two sections containing 24 and 8 flats and Contractors may tender for either or both sections.

Applications, accompanied by a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide tender and/or the return of all documents, should be addressed to the Architect, P. D. Lees, L.R.I.B.A., at the Council Offices Severals House, Newmarket (where Drawings and Conditions of Contract may be inspected during normal office hours), and tenders are to be delivered to the undersigned on a date to be notified when the documents are despatched.

The Council do not bind themselves to accept the lowest or any tender.

JOHN CRABB,
Clerk of the Council.

Severals House,
Newmarket.

BOROUGH OF WOODGREEN.

Re: ERECTION OF (a) 36 MAISONETTES AND 18 FLATS. (b) 6 DWELLING HOUSES.

The Council invite TENDERS on a FIXED PRICE BASIS for the ERECTION of the above as follows:—

(a) Winkfield / Acacia-road: 36 MAISONETTES AND 18 FLATS.

(b) Devonshire Hill-lane: 6 DWELLINGS.

Bills of Quantities, etc., will be available for Scheme (a) on 25th February next, and Scheme (b) 9th March.

Forms of Tender, ¼ in. scale drawings, etc., obtainable from the Borough Engineer at address below (where Conditions of Contract may also be inspected) upon payment of a deposit of £2 2s. 0d. for each application, returnable on submission of a bona fide tender, not subsequently withdrawn.

Tenders in plain sealed envelopes, endorsed (a) "Tender for 36 Maisonettes and 18 Flats—Winkfield/Acacia-road," and (b) "6 Dwellings—Devonshire Hill-lane," but with no name or mark indicating the sender, must be delivered to the undersigned not later than noon on 25th MARCH, 1959.

A. BARNETT,
Town Clerk.

Town Hall,
Wood Green, N.22.
10th February, 1959.

BOROUGH OF WARWICK.

LINEN-STREET DEVELOPMENT.

ERECTION OF FLATS AND SINGLE-STOREY DWELLINGS.

TENDERS are invited for the CONSTRUCTION of ONE THREE-STOREY BLOCK OF FLATS comprising FIVE BED-SITTINGROOM FLATS, SIX TWO-BEDROOM FLATS, STAIRCASE AND LAUNDRY ROOM, together with THREE SINGLE-STOREY BED-SITTINGROOM FLATS on an adjoining site. Copies of the Bill of Quantities, General Conditions and Form of Tender may be obtained from the undersigned on or after MONDAY, the 2nd MARCH, 1959, on payment of £2 2s. deposit, which will be returned on receipt of a bona fide Tender. Drawings may be seen at this Office during normal working hours.

Tenders in plain sealed envelopes endorsed "Linen-street Development," must reach the undersigned not later than first post on MONDAY, the 23rd MARCH, 1959.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury-street,
Warwick.

CENTRAL DURHAM CREMATORIUM JOINT COMMITTEE.

The Joint Committee invites TENDERS for the ERECTION of a CREMATORIUM at the South Road Cemetery, DURHAM.

Full Particulars and Bills of Quantities, Specification, Conditions of Contract, Forms of Tender and copies of the Drawings may be obtained from the Architects: Messrs. Chaplin & Burgoine, 4 Cathedral-close, Norwich, Norfolk, upon payment of a deposit of £2 2s., made payable to the City Treasurer of Durham, which will be refunded on receipt of a bona fide tender not afterwards withdrawn and the return of all documents.

Tenders enclosed in plain sealed envelopes bearing the words "TENDER FOR CREMATORIUM," should be delivered to the undersigned not later than noon on the 18th MARCH, 1959. The Joint Committee does not bind itself to accept the lowest or any tender.

D. B. MARTIN-JONES,
Clerk to the Joint Committee.

32 Claypath,
DURHAM.
23rd February, 1959.

COUNTY COUNCIL OF ESSEX.

Contractors wishing to submit FIRM PRICE TENDERS for the following should forward their names, from which panels will be chosen and provided with specifications.

COUNTY PRIMARY SCHOOLS:

Chingford Chase Lane: INTERNAL AND EXTERNAL PAINTING. £4,400.

Chingford Larkswood: INTERNAL AND EXTERNAL PAINTING. £5,050.

Harlow Tany's Dell: INTERNAL PAINTING. £2,500.

Waltham Holy Cross: INTERNAL PAINTING. £2,500.

Chigwell The Coppice: INTERNAL PAINTING. £2,700.

Loughton The Alderton: INTERNAL AND EXTERNAL PAINTING. £4,850.

Loughton The White Bridge: INTERNAL PAINTING. £2,400.

COUNTY SECONDARY SCHOOLS:

Chingford Heathcote: INTERNAL AND EXTERNAL PAINTING. £3,650.

Chingford: INTERNAL PAINTING. £4,500.

Loughton Lucton Boys': EXTERNAL PAINTING. £3,150.

Loughton Lucton Girls': INTERNAL PAINTING. £5,000.

Loughton County High: INTERNAL PAINTING. £2,700.

The work entailed in the above contracts will be carried out during term time and/or Whitsun, Summer and Christmas holidays.

Separate applications for each contract to reach the undersigned not later than 7th MARCH, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

COUNTY COUNCIL OF ESSEX.

(1) Kirby-le-Soken County Primary School—ADDITIONAL CLASSROOM, ETC.

(2) Matching Green C. of E. (Controlled) Primary School—LAVATORY ACCOMMODATION.

(3) Gosfield County Primary School—EXTENSIONS AND ALTERATIONS.

Contractors wishing to submit FIRM PRICE TENDERS for the ERECTION of the above should forward their names, from which panels will be chosen and provided with tender documents.

(1) and (2) in traditional construction, estimated cost £2,500.

(3) Assembly Hall, Kitchen, Sanitary Accommodation and alterations in traditional construction, estimated cost £10,000.

The private architects for these contracts are (1) G. H. B. and Roy Gould, Station-road, Clacton-on-Sea; (2) Gerald Lacoste, South-street, Bishop's Stortford; and (3) Russell Walker, High-street, Colchester.

Separate applications for each contract to reach the undersigned not later than 7th MARCH, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

BOROUGH OF SHREWSBURY.

ERECTION OF HOUSES, BUNGALOWS, FLATS AND GARAGES.

TENDERS are invited for a fixed-price contract for the ERECTION of 113 DWELLINGS and 13 GARAGES at Harlescott Grange Estate.

Specifications, drawings, bills of quantities and forms of tender may be obtained from and conditions of contract may be seen during office hours at the office of The Borough Surveyor, Guildhall, Shrewsbury, on and after 27th FEBRUARY, on payment of £2 2s. which will be returned on receipt of a bona fide tender and other documents.

Tenders on the prescribed form, sealed in the envelope provided and bearing no outside mark of identification, are to be received by the undersigned not later than 10 a.m. on FRIDAY, 20th MARCH, 1959.

The Council do not bind themselves to accept the lowest or any other tender.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.
February, 1959.

BOROUGH OF STOURBRIDGE.

TENDERS are invited for the EXTENSIONS TO AND CONVERSION OF THE CHAPEL BUILDING at South-road Cemetery into a Crematorium.

Bills of Quantities, etc., may be obtained from the undersigned after 9th March, on receipt of £3 3s. 0d. deposit.

Tenders in plain sealed envelopes, endorsed "Crematorium" to reach the Town Clerk, Council House, Stourbridge, at or before NOON on MONDAY, 6th APRIL, 1959.

The Council does not bind itself to accept the lowest or any Tender. The acceptance of a Tender is subject to the approval of the Minister of Housing and Local Government.

G. N. MAYNARD,
A.M.I.C.E., F.R.I.C.S.,
Borough Engineer and Surveyor.

Council House,
Stourbridge.
20th February, 1959.

THURROCK URBAN DISTRICT COUNCIL.

TENDERS are invited from Plastering Contractors having the necessary Plant, Personnel and organisation in connection with the EXTERNAL RENDERING OF PRE-WAR COUNCIL HOUSES.

Applications for Tender forms should be made to the Estates Manager, Council Offices, Whitehall-lane, Grays, Essex, on or before the 9th MARCH, 1959.

A. E. POOLE,
Clerk of the Council.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED SCHOOL MEALS ACCOMMODATION AT CARSHALTON, GREEN WRYTHE COUNTY PRIMARY SCHOOL.

The work consists of the ERECTION, in permanent construction of a KITCHEN AND DINING ROOM to provide 350 meals daily.

Contractors wishing to Tender should apply to the County Architect, County Hall, Kingston upon Thames, by 5th MARCH, 1959.

RUISLIP - NORTHWOOD U.D.C.

ERECTION OF GARAGES.

TENDERS are invited for the ERECTION OF 66 GARAGES (brick, traditional type) at five sites in the district.

Documents obtainable from the Engineer and Surveyor on payment of £2 2s. 0d. deposit, returnable on receipt of bona fide Tender.

Tenders to be returned to the undersigned by 10 a.m. on MONDAY, 16th MARCH, 1959.

EDWARD S. SAYWELL,
Clerk of the Council.

Council Offices,
Northwood.

METROPOLITAN BOROUGH OF WANDSWORTH.

EXTERNAL PAINTING.

Contractors wishing to TENDER for EXTERNAL PAINTING WORKS TO MULTI-STOREY BLOCKS at Henry Prince Estate, Garratt lane, S.W.18, should submit their names to me not later than WEDNESDAY, 11th MARCH, 1959 giving details of similar works previously undertaken together with names of two financial and two technical referees. Specifications and Tender documents will be issued to selected contractors in due course.

R. H. JERMAN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

CHURCH STRETTON URBAN DISTRICT COUNCIL.

12 DWELLINGS—LUTWYCHE-ROAD.

Builders and Contractors are invited to TENDER for the ERECTION OF FOUR BLOCKS, traditional type, each comprising TWO TWO-BEDROOMED HOUSES and ONE OLD PEOPLE'S BUNGALOW on the Lutwyche-road site, Church Stretton, in accordance with the drawings and Bills of Quantities prepared by Messrs. Richard & Douglas Hall, of Bowdler's House, Town Walls, Shrewsbury.

The Bills of Quantities and Form of Tender will be supplied upon payment to the undersigned of the sum of £3 3s. 0d. which will be refunded on receipt of a bona fide Tender.

Copies of the plans will be deposited at the Architects' office and this office where they may be inspected by Contractors.

The Council do not bind themselves to accept the lowest or any Tender and no contract will be entered into until the sanction of the Minister of Housing and Local Government has been received.

Tenders on the form supplied are to be returned to me in sealed envelopes endorsed "Housing Tender" so as to reach me not later than NOON on 20th MARCH, 1959.

H. J. B. WILLIAMS,
Clerk of the Council.

Council Offices,
Church Stretton,
Shropshire.

COUNTY BOROUGH OF WALSALL.

NEW BATHS—TOWER-STREET, WALSALL.

The Council invite Contractors wishing to TENDER for the above project to submit their names. Details of previous experience on work of this or a similar nature, and the names of Architects or others from whom references can be obtained, both as regards quality of work and speed of execution should be supplied with the application.

It is hoped that it will be possible for work to be commenced on the site in September, 1959.

Detailed information relating to the scheme is available on application to me.

Replies are to be forwarded to me in a plain sealed envelope, endorsed "Tenderers—Tower-street Baths" to arrive not later than FRIDAY, 20th MARCH, 1959.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
20th February, 1959.

BOROUGH OF NEWBURY.

ONE BLOCK OF NINE AGED PERSONS' DWELLINGS (SCHEME 13) ENBORNE-ROAD, NEWBURY.

TENDERS are invited for the CONSTRUCTION of the above.

Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose office plans and general conditions may be inspected.

Sealed Tenders endorsed "TENDER FOR SCHEME 13," must be delivered to the undersigned not later than 9 a.m., THURSDAY, 19th MARCH, 1959. The Corporation does not bind itself to accept the lowest or any tender.

LESLIE SOUTHERN,
Town Clerk.

EXMOUTH URBAN DISTRICT COUNCIL.

ERECTION OF 24 OLD PEOPLE'S BUNGALOWS.

TENDERS are invited for the ERECTION of 24 OLD PEOPLE'S BUNGALOWS, in the form of four pairs, and four blocks of four, at Nutbrook and Burnside Site, Withycombe Village, Exmouth.

The whole 24 Bungalows being let as one Contract.

Copies of the Drawings, Documents and Form of Tender may be obtained from the office of the Engineer and Surveyor, R. J. Humphreys, M.I.Mun.E., Templetown Lodge, Esplanade, Exmouth, on receipt of a deposit of £2 2s. 0d., which will be refunded on receipt of a bona fide tender.

Tenders in a plain sealed envelope endorsed "Tender—24 Bungalows," must be received by the undersigned not later than noon on MONDAY, the 23rd of MARCH, 1959.

The Council does not bind itself to accept the lowest or any tender.

R. S. BAGSHAW,
Clerk and Solicitor.

Council Offices,
Exmouth.

TETTENHALL, WROTTESLEY AND CODSALL JOINT CEMETERY BOARD.

CONTRACT No. 3.

PROPOSED SUPERINTENDENT'S LODGE AND OTHER ANCILLARY BUILDINGS.

The Council invite TENDERS for work in connection with the above to be erected at the new Cemetery in Coppice-lane. Plans, Specification and Conditions of Contract may be obtained on application to J. W. Mason, Engineer and Surveyor to the Board, Council Offices, Upper Green, Tettenhall on receipt of a deposit of £3 3s. 0d. which will be returned on receipt of a bona fide tender not subsequently withdrawn.

Bills of Quantities will not be issued in connection with this work, the tender being a lump sum fixed price tender.

Tenders in plain sealed envelopes bearing no indication of the sender's identity and endorsed "Superintendent's Lodge," must be delivered to the undersigned not later than noon on SATURDAY, 14th MARCH, 1959.

The Board do not bind themselves to accept the lowest or any tender.

Dated this 17th day of February, 1959.

R. WAKEFIELD RUSSELL,
Clerk to the Board.

Council Offices,
Upper Green,
Tettenhall,
Wolverhampton.

BOROUGH OF CHORLEY.

TENDERS are invited for the CONSTRUCTION of an EXTENSION to the BOROUGH LIBRARY.

Tender documents may be obtained from the Council's Consultant Architect, W. E. Mayer, Esq., A.R.I.B.A., 12 Cleveland-street, Chorley, on payment of a deposit of two guineas, returnable on receipt of a bona fide tender.

Tenders must be returned to the undersigned by 9 a.m., on THURSDAY, 19th MARCH, 1959.

ROBERT POTTER,
Town Clerk.

Town Hall,
Chorley.

COUNTY BOROUGH OF MIDDLESBROUGH.

ST. HILDA'S—3RD SECTION.

52 3-STOREY FLATS AND MAISONETTES.
13 HOUSES.

TENDERS are invited, on a firm-price basis, for the building and civil engineering work for the ERECTION of the above dwellings, demolition of certain existing properties, the laying of a number of sewers and the partial reconstruction of some existing roadways, all to be let in one Contract.

Bills of Quantities from the Borough Engineer, Municipal Buildings, deposit two guineas.

Tenders to be received by Town Clerk on or before TUESDAY, 31st MARCH, 1959.

Ascot and the Se-Duct **make history**

Ascot and the new Se-Duct system of vertical duct flueing made architectural history on October 27th, 1958, when a block of 160 new flats was officially opened at Anne Street, Gateshead.

Built for the Gateshead Corporation, the flats are the first multi-storey dwellings to be constructed with the Se-Duct replacing traditional flues for high efficiency room-sealed gas appliances such as the Ascot 727 water heater. As a result, improved layout and considerable savings in capital installation costs have been achieved.

Thanks to the Se-Duct system, full heat services from high efficiency gas appliances are available at the Anne Street flats at a low running cost comparable with that of a solid fuel system. These comprise 160 Ascot 727 'multipoints' and 30 Ascot 503/2 sink water heaters, as well as gas fired drying cabinets, cookers, radiant/convector fires and washboilers

Diagram shows how the Se-Duct is planned into a multi-storey building, and how the various types of sealed gas appliances can be arranged.

Borough Engineer & Surveyor & Town Planning Officer
G. F. WINTERS, A.M.I.C.E.

Regd. Trade Mark
ASCOT

ASCOT GAS WATER HEATERS LIMITED, 255 NORTH CIRCULAR ROAD, NEASDEN, N.W.10

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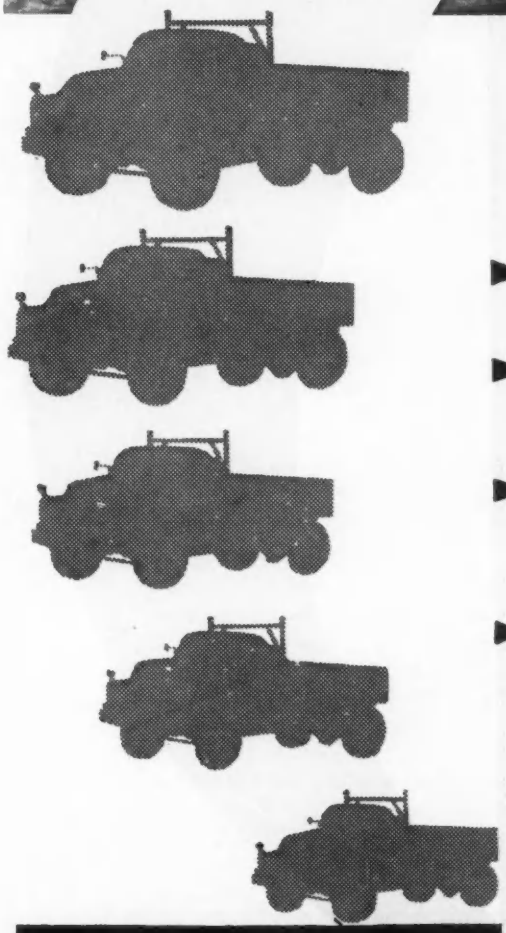

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1. Each load out is money in your pocket, so get them out quickly. For the fastest loading buy the best loading shovel—a shovel to work in all weathers and on the worst ground conditions.

2. One shovel will keep many lorries or hoppers served; but if it stops work, every idle hour will cost pounds, so reliability is vital too and behind reliability there must be, close at hand, first class servicing facilities.

3. Your operator has to work the shovel. You will only get the best out of them both if he is happy with his machine. Check its features with him. The controls should be conveniently arranged and easy to use and—most important—the visibility must be excellent.

4. Do bear in mind the other jobs that a shovel could do for you—excavating, turf stripping, back filling, dozing. Many machines will do these jobs after a fashion. You must have a shovel that does them *well*. Insist on seeing it done before you buy.

If you add up your requirements the obvious answer is a

CHASESIDE LOADMASTER SHOVEL

where the bulk handling of materials is involved—whether it is gravel, aggregate, rock, chemicals, coal, coke, earth or anything else—the way to win a larger share of today's business and cut costs too is to employ a CHASESIDE LOADMASTER.

All models are now available with Automatic Torque Convertor Transmission. Send for a copy of "new light on Chaseside equipment."

Make sure you have full details.

CHASESIDE ENGINEERING CO. LTD. Station Works, Hertford, Herts.
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Can't blame him for preferring a run to a sit-down at the local. Even when what he's sitting ON is something as superb as a TRINASCOLIN Floor by Limmer & Trinidad. Everyone but he realises that here is modern decorative flooring at its best, beautiful in appearance and comfortable to the tread.
Laid by craftsmen, TRINASCOLIN produces a floor which is warm, resilient and completely trouble-free. It is available in several thicknesses and in many plain and marbled colours. If you would like technical literature on Limmer & Trinidad Decorative Floors (and on all other Limmer & Trinidad products) you only have to write.

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THE LIMMER & TRINIDAD LAKE ASPHALT COMPANY LIMITED, TRINIDAD LAKE HOUSE, 232-242, VAUXHALL BRIDGE ROAD, LONDON, S.W.1

AMENDED ADVERTISEMENT.

AYCLIFFE DEVELOPMENT CORPORATION. (NEW TOWN OF NEWTON AYCLIFFE)

CONTRACT 163
ERECTION OF HOUSES, ETC.

FIXED-PRICE TENDERS are invited for the ERECTION of 204 HOUSES, 72 LOCK-UP GARAGES and 3 MOTOR CYCLE LOCK-UPS in Housing Precinct, E.4 in the new town of Newton Aycliffe.

Application for bills of quantities and form of tender should be made to the undersigned, with a deposit of £2 2s., which will be returned on receipt of a bona fide tender and accompanying documents.

Plans and drawings may be inspected at the office of the Corporation's Chief Architect during normal office hours.

Tenders in plain sealed envelopes bearing no indication of the identity of the sender and endorsed "Tender" for Contract 163," must be delivered to the undersigned not later than first post on FRIDAY, 3rd APRIL, 1959.

The Corporation does not bind itself to accept the lowest or any tender.

A. V. WILLIAMS,
General Manager.

Newton Aycliffe,
Nr. Darlington,
Co. Durham.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED SCHOOL MEALS ACCOMMODATION AT DORKING, ST. PAUL'S CHURCH OF ENGLAND PRIMARY SCHOOL.

The work consists of the ERECTION in permanent construction OF A KITCHEN AND DINING ROOM to provide 200 meals daily.

Contractors wishing to Tender should apply to the County Architect, County Hall, Kingston upon Thames, by 5th MARCH, 1959.

COUNTY BOROUGH OF READING.

TO FENCING CONTRACTORS.

FIRM PRICE TENDERS are invited for the SUPPLY AND ERECTION OF WOODEN OPEN PALED FENCING to CONCRETE POSTS, TOGETHER WITH WOODEN GATES AT 132 HOUSES, Oxford-road Estate. General conditions may be inspected and specification with site plans, etc., obtained from the Housing Manager, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by NOON, MONDAY, 23rd MARCH, 1959. No Tender considered unless enclosed in the endorsed envelope provided which should bear no indication of the sender. The Corporation do not bind themselves to accept any Tender.

BOROUGH OF ILFORD.

PROPOSED PUBLIC CONVENIENCES.

GOODMAYES PARK EXTENSION AND CRICKLEFIELD ATHLETIC GROUND.

TENDERS are invited for the ERECTION of PUBLIC CONVENIENCES at Goodmayes Park Extension and Cricklefield Athletic Ground.

The sizes of the buildings will be about 36 ft. x 26 ft. x 13 ft. high.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided, with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on 24th MARCH, 1959.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any tender.

BOROUGH OF ILFORD.

ERECTION OF PUBLIC CONVENIENCE IN YORK-ROAD, ILFORD.

TENDERS are invited for the ERECTION of a PUBLIC CONVENIENCE in York-road, Ilford. Applications in writing for the form of Tender, Bills of Quantities and Drawings, which will be sent out on 3rd MARCH, 1959, should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender (not subsequently withdrawn) and all documents issued. Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m., on TUESDAY, 24th MARCH, 1959. Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for (1) the ERECTION of an EXTENSION to a PHYSICS LABORATORY, and (2) ERECTION of STAFF TOILETS and ALTERATION to STAFF ROOM at Reading School.

General Conditions may be inspected, and tender form, specifications and drawings obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by 12 noon, 26th MARCH, 1959. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

WILTS COUNTY COUNCIL.

TENDERS are invited for EXTENSIONS (of approximately 3,750 sq. ft. floor area), to WARNEFORD SECONDARY MODERN SCHOOL, Highworth, nr. Swindon.

Applications to tender with details of available labour force, organisation and particulars of any similar work carried out, to be made by 6th MARCH, 1959, to the County Architect.

The Council reserves to itself the right to select the firms who will be invited to tender.

Bills of Quantities will be sent to selected contractors.

P. A. SELBORNE STRINGER,
Clerk of the Council.

County Hall,
Trowbridge.
19th February, 1959.

TO BUILDERS AND CONTRACTORS.

NORTH RIDING

EDUCATION COMMITTEE

BILLS of QUANTITIES, etc., for ERECTION of 2nd instalment of GRAMMAR AND MODERN SCHOOL, at THIRSK, obtainable from me or Architect, Julian Leathart & Son, 49 Welbeck-street, London, W.1. Plans may be seen at the County Hall, Northallerton. Completed tenders in official tender envelope must arrive not later than WEDNESDAY, 1st APRIL with postmark not later than 31st MARCH, 1959. Envelope must be sealed and have no mark indicating tenderer. Lowest or any tender not necessarily accepted. F. BARRACLOUGH, County Hall, Northallerton.

STEVENAGE URBAN DISTRICT COUNCIL.

PROPOSED 52 HOUSES, 12 OLD PERSONS' BUNGALOWS and 29 GARAGES, at Fishers Green-road Estate, Stevenage.

The Council will shortly be inviting TENDERS for the ERECTION of the above traditional type houses and brick garages at Fishers Green-road Estate, Stevenage.

It is the intention of the Council to invite firm priced tenders on a selective basis and contractors who wish to be considered should forward their names and addresses to The Engineer and Surveyor, 19, Orchard-road, Stevenage, Herts., not later than FRIDAY, 20th MARCH, 1959. Applications should be accompanied by details of similar works recently carried out. Contractors will be selected and the Council may add others.

Bills of Quantities will be issued on or about 23rd MARCH, 1959.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage.

CITY AND COUNTY OF THE CITY OF LINCOLN.

ERECTION OF 41 DWELLINGS AND 10 GARAGES, ERMINE ESTATE WEST AND SWIFT GARDENS.

FIXED PRICE TENDERS are invited for the ERECTION OF TWO AND THREE BEDROOM MAISONETTES, BED RECESS AND ONE-BEDROOM FLATS, THREE AND FOUR-BEDROOM HOUSES, OLD PEOPLE'S BUNGALOWS AND 10 GARAGES.

The construction is to be load bearing cavity walls with pitched roofs and interlocking tiles.

Plans and Conditions of Contract may be examined at and Bills of Quantities, explanatory drawing and Form of Tender obtained (after 5th MARCH, 1959) from the City Architect, R. R. Alexander, F.R.I.B.A., M.T.P.I., Stamp End, Lincoln, on payment of a deposit of £2 2s. 0d. (cheques made payable to the Lincoln Corporation) which will be refunded on receipt of a bona fide tender including relevant documents.

Tenders on the prescribed form, in the plain envelope supplied, bearing no name or mark indicating the sender, must be delivered, sealed, to the undersigned not later than 10 a.m. on the 25th MARCH, 1959, endorsed "Tender for 41 Dwellings and 10 garages, Ermine Estate West and Swift Gardens."

The Council do not bind themselves to accept the lowest or any tender.

J. HARPER SMITH,
Town Clerk.

Town Clerk's Office,
Saltergate,
Lincoln.
February, 1959.

DURHAM COUNTY COUNCIL.

TENDERS invited :—

Weterton House Farm, Sedgefield—ERECTION OF NEW FARMHOUSE.

Lizards Farm, Sedgefield—ERECTION OF NEW FARMHOUSE.

Sprucely Farm, Sedgefield—ERECTION OF NEW FARM STEADING.

Standard Police Houses, Salters-lane South Estate, Darlington—Bishop Close Site—ERECTION OF THREE PAIRS SEMI-DETACHED. Rockwell-avenue Site—ERECTION OF ONE PAIR SEMI-DETACHED.

Application for further details to County Architect, South-street, Durham, not later than 11th MARCH, 1959.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

BOROUGH OF LUTON.

FIXED PRICE TENDERS invited for

(a) Supply, unloading and erection of four timber SECTIONAL PREFABRICATED CLASSROOMS HUTS, each 60 ft. x 24 ft., at three Schools.

(b) Supply and fixing of METAL WINDOWS, Sewage Works Office Block.

(c) Supply and fixing of SUSPENDED FLOOR, ROOF and STAIRCASE, Sewage Works Office Block.

(d) Supply and delivery of ARTIFICIAL STONE, Sewage Works Office Block.

Documents from Borough Architect, Town Hall, Luton. Tenders (a) to Town Clerk by NOON on WEDNESDAY, 11th MARCH, 1959. Tenders (b) to (d) to Town Clerk by NOON on TUESDAY, 31st MARCH, 1959.

URBAN DISTRICT COUNCIL OF KIDSGROVE.

ERECTION OF FLATS.

TENDERS are invited for the ERECTION of FLATS as follows:—

(1) Everest - road, Whitehill: 12 FLATS IN 3 BLOCKS OF 4.

(2) Hollinwood-road, Butt-lane: 12 FLATS IN 3 BLOCKS OF 4.

Tender documents may be obtained from the Engineer and Surveyor, Town Hall, Kidsgrove, Staffs., on payment of a deposit of £1 2s. 0d. for each site. The deposit will be returned on receipt of a bona fide tender and the return of all documents.

Tenders, in plain sealed envelopes, bearing no name or mark indicating the name of the sender, and endorsed "Erection of Flats" are to be returned to the undersigned not later than noon on TUESDAY, the 24th MARCH, 1959.

The Council does not bind itself to accept the lowest or any tender.

O. LLOYD HURST,
Clerk of the Council.

Town Hall,
Kidsgrove, Staffs.
February, 1959.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for the CONVERSION OF THE EXISTING PLAY-SHED INTO A WASH-UP AND DINING ROOM at Pudsey Primrose Hill Secondary School.

Bills of quantities, specification and form of Tender will be available on and after the 9th March, 1959, on payment of a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender. Cheques must be made payable to the West Riding treasurer and crossed "& Co."

Applications to Tender must be addressed to the County Architect, "Bishopgarth," Westfield-road, Wakefield, and received not later than the 9th MARCH, 1959.

The contract will be under the provisions of the R.I.B.A. Conditions and Form of Agreement, the Plans may be seen at this office and at the School.

Sealed Tenders must be addressed to me, the undersigned and received at Room 3, County Hall, Wakefield, not later than 12 NOON on the 23rd MARCH, 1959.

BERNARD KENYON,
Clerk of the County Council.

COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

PERMANENT HOUSING PROGRAMME.

STERRIX-LANE SITE.
SCHEME NO. 45.

TENDERS are invited for the ERECTION OF 196 DWELLINGS, consisting of houses and flats of various types, at the above site.

GLOVERS-LANE SITE.
SCHEME NO. 46.

TENDERS are also invited on a Fixed Price basis for the ERECTION of 81 SIMILAR DWELLINGS at the above site.

Bills of Quantities and Forms of Tender for both Schemes may be obtained from the Borough Surveyor, Town Hall, Bootle, 20, Land, on or after 2nd MARCH, 1959. £2 2s. 0d. deposit.

Tenders will be returnable not later than 10 a.m. on MONDAY, 16th MARCH, 1959.

By Order,
HAROLD PARTINGTON,
Town Clerk.

THE HAVANT AND WATERLOO URBAN DISTRICT COUNCIL

invite FIXED PRICE TENDERS for the SUPPLY OF APPROXIMATELY 200 CAST IRON BATHS.

Specifications and Forms of Tender may be obtained from the Engineer and Surveyor, 1, Park-road North, Havant.

No Tender will be received except in a plain sealed envelope, endorsed "Tender for Baths," which shall not bear any name or mark indicating the sender.

Tenders must be delivered not later than 12 noon on WEDNESDAY, 11th MARCH, 1959, to the Clerk of the Council, Town Hall, Havant.

The Council do not bind themselves to accept the lowest or any tender.

TO BUILDERS AND CONTRACTORS.

NORTH RIDING

EDUCATION COMMITTEE

BILLS of QUANTITIES, etc., for ALTERATIONS and EXTENSIONS to STARTFORTH MORRITT MEMORIAL C. of E. SCHOOL, near BARNARD CASTLE, obtainable from me. Plans may be seen at the School or County Hall, Northallerton. Completed tenders in official envelope must arrive not later than WEDNESDAY, 25th MARCH, with postmark not later than the 24th MARCH, 1959. Envelope must be sealed and have no mark indicating tenderer. Lowest or any tender not necessarily accepted. F. BARRACLOUGH, County Hall, Northallerton.

BOROUGH OF GRANTHAM.

TENDERS FOR HOUSES.

FIXED PRICE TENDERS are invited for the ERECTION OF 18 HOUSES. Plans may be inspected and bills of quantities obtained, on deposit of £2 2s. 0d., from Borough Engineer's Office. Tenders to be submitted, in plain sealed envelope endorsed "Tender for 18 Houses," to me not later than MONDAY, 16th MARCH, 1959.

JOHN F. GUILE,
Town Clerk.

Guildhall,
Grantham.

LEATHERHEAD URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION of 24 DWELLINGS at Shamrock-field, Fetcham. Bills of Quantities and Tender documents from the Engineer and Surveyor, Red House, Leatherhead, on payment of £2 2s. 0d. deposit, returnable on receipt of bona fide Tender. Drawings may be inspected at Red House. Tenders and completed Bills of Quantities to be returned by NOON, 27th MARCH, 1959.

J. EDE,
Clerk of the Council.

Council Offices,
Leatherhead.
February, 1959.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

EXTERNAL REDECORATION OF DWELLINGS.

TENDERS are invited for the above works comprising:

Contract No. 21.—Cranford Estate: 147 PREFABRICATED BUNGALOWS WITH OUTHOUSES.

Contract No. 22.—Balmoral Drive Estate: 45 PREFABRICATED BUNGALOWS AND OUTHOUSES.

Contract No. 23.—Harlington Estate: 78 TRADITIONAL HOUSES.

Documents from Estates Manager, Estate Office, Townfield-road, Hayes, Middx.

Tenders, in sealed envelopes endorsed "Tender for Contract No(s). . . . . ," but NOT indicating the sender, to be received by Clerk and Solicitor, Town Hall, Hayes, Middx., by 12th MARCH, 1959. The Council do not bind themselves to accept the lowest or any tender. Canvassing disqualifies.

CITY OF BATH.

SNOW HILL REDEVELOPMENT—ERECTION OF 5-STOREY BLOCK OF 56 MAISONETTES.

Contractors desirous of TENDERING for the ERECTION of the above dwellings should submit their names to the Architects, Messrs. Snailum & Le Fevre, 18, Brock-street, Bath, by the 9th MARCH, 1959, together with a deposit of £2 2s. 0d. payable to the Bath Corporation, which will be returnable on receipt of a bona fide tender.

Bills of Quantities, Form of Tender and instructions regarding delivery of tenders will be forwarded as soon as possible after the above date. Drawings may be seen by appointment at the Architects' offices.

The Corporation does not bind itself to accept the lowest or any tender.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

PUBLIC APPOINTMENTS

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified QUANTITY SURVEYORS with wide experience in preparation of Bills of Quantities for major projects of all types, and able to take charge from taking-off to settlement of final accounts.

Permanent staff appointments within salary range £1,175-£1,325 (A.P.T. V). Starting point according to experience.

Application Forms returnable by FRIDAY, 6th MARCH, from the County Architect, P.O. Box 26, County Hall, Preston. Reference A/B.

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Permanent staff appointments within salary range £1,175-£1,325 (A.P.T. V). Starting point according to experience.

Application Forms returnable by FRIDAY, 6th MARCH, from the County Architect, P.O. Box 26, County Hall, Preston. Reference A/B.

METROPOLITAN BOROUGH OF WANDSWORTH.

SENIOR ASSISTANT ARCHITECT.

Applications invited for this post. Grade A.P.T. IV, £1,055 rising to £1,205. Applicants must be Associates of the RIBA with experience in design and planning of multi-storey blocks of flats and supervision of their erection. Forms from the Borough Engineer must reach me by 11th MARCH.

R. H. JERMAN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

BOROUGH OF EDMONTON.

BOROUGH ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT (temporary) required. Work includes interesting redevelopment schemes involving multi-storey flats. Unique opportunity to gain valuable experience of unified control of building work in direct labour organisation responsible for all facets of building with special regard to the integration of contemporary design with up-to-date mechanised building methods.

Grade A.P.T. II £725 x £30—£845, plus £10-£30 London Weighting according to age. Minimum qualification Intermediate R.I.B.A. or equivalent, for which maximum of grade will be paid to suitable applicant.

Five-day week. Time off and financial assistance for studies.

Applications must be made on forms obtainable from the Town Clerk, Town Hall, Edmonton. Closing date 7th MARCH, 1959.

QUANTITY SURVEYING

ASSISTANTS Required by W.D.: (a) in H.Q. Southern Command; (b) Aldershot; (c) Larkhill.

Applicants must be of British parentage and have:—

City and Guilds Final (Section A and B) in Builders Quantities *or* National Building Certificate *or* Diploma of the Institute of Builders or proof of study to an equivalent standard, together with in each case 5 years' experience with a Quantity Surveyor or Building Contractor (or Government or Local Authority *or* Service as a Military Quantity Surveying Assistant after passing the Group "A" Class II Test).

Salary, £655 to £820 p.a. (Minimum linked to age 26 years).

APPLY:—

(a) C.E., H.Q. Southern Command, Salisbury, Wilts.

(b) C.E., Aldershot District, Steel's-road, Aldershot.

(c) C.R.E., Salisbury Plain, Fargo-road, Larkhill, Wilts.

BOROUGH OF DUNSTABLE.

CLERK OF WORKS required to supervise road and drainage works for a period of two years. Wage £14 per week. Housing accommodation may be provided.

Applications for the appointment to Town Clerk, Municipal Offices, Dunstable, by 7th MARCH, 1959, from whom any further information can be obtained.

SOMERSET COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Special Grade, £750-£1,030.

(b) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £575-£725.

Applicants for (a) must be Associate Members of the R.I.B.A. or have passed Parts I and II of the R.I.B.A. final, or special examination, with a good standard of design ability, and may be required to take charge of work from sketch plan stage to completion on the ground, working with a team consisting of four or five Architects; for (b) must have passed the Intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture.

The appointments are on the established staff of the Department and subject to the provision of the Local Government Superannuation Acts, the National Scheme of Conditions of Service, a satisfactory medical examination and termination by one month's notice.

Applications stating age, experience, qualifications and present appointment, with names and addresses of two referees should be forwarded to reach me on or before MONDAY, the 9th MARCH, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.

BOROUGH OF SOUTHALL.

AMENDED ADVERT.

APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for this appointment, which it is anticipated will be of several years' duration, in connection with the supervision of erection of houses and flats.

The salary will be on a scale £725 x £25—£800.

The successful candidate will be required to pass a medical examination.

Forms of application, obtainable from the Borough Engineer, Town Hall, Southall, should be returned to him on or before 16th MARCH, 1959.

J. S. SYRETT,
Town Clerk.

COUNTY BOROUGH OF BURY.

Applications invited for position of ARCHITECTURAL ASSISTANT, Special Grade (£750-£1,030 per annum). Commencing salary according to qualifications and experience.

Applications stating age, training and qualifications, present and previous appointments and experience, together with names and addresses of two referees, must reach me by 9th MARCH, 1959.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYORS: Two vacancies exist for QUANTITY SURVEYORS. Salary, £1,175 x £50 to £1,325 per annum. Applicants must be Associates of the Royal Institution of Chartered Surveyors. National Joint Council Conditions of Service. Pensionable posts. Canvassing disqualifies. Application forms from The County Architect, County Offices, Matlock, to whom they should be returned by 23rd MARCH, 1959.

CORPORATION OF DUNDEE.

DIRECT LABOUR BUILDING DEPARTMENT.
APPOINTMENT OF MANAGER.

Applications are invited for the post of MANAGER OF THE DIRECT LABOUR BUILDING DEPARTMENT, Dundee.

Salary £1,207 10s. x £55, to £1,425 16s. per annum, with placing according to qualifications and experience.

Applicants should have a sound knowledge and experience of all branches of the building trade and be suitably qualified. The duties involve the control and administration of the Direct Labour Building Department which is engaged on new building, as well as maintenance and repair work.

The post is superannuable and the successful applicant will require to pass satisfactorily a medical examination. Housing accommodation may be made available.

Applications, stating age, experience, qualifications and present appointment, with names and addresses of two professional referees, should be lodged with the Subscriber on or before 12th MARCH, 1959.

ROBERT LYLE,
Town Clerk.

City Chambers,
DUNDEE.
18th February, 1959.

AYCLIFFE DEVELOPMENT CORPORATION (NEW TOWN AND NEWTON AYCLIFFE).

APPOINTMENT OF QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. I of the Whitley Council for New Towns Staff scale of salaries, i.e. £562 p.a. rising by four annual increments to a maximum of £647 p.a.

Applicants should be approaching the intermediate standard of the R.I.C.S.

Appointment subject to N.J.C. Conditions. Superannuation and Medical Examination.

Housing accommodation if necessary.

Applications stating age, qualifications and experience together with the names of two referees to arrive not later than WEDNESDAY, the 11th MARCH, 1959.

A. E. WILLIAMS,
General Manager.

Newton Aycliffe,
Nr. Darlington,
Co. Durham.

SOMERSET COUNTY COUNCIL.

Applications are invited for the appointment of two CLERKS OF WORKS, TEMPORARY, one resident at or near Keynsham and one at or near Wells.

The former will be required to supervise major contracts, principally Schools, whilst the latter is required to act as a "mobile" Clerk of Works to supervise a number of minor contracts, e.g., Fire Station, Occupational Centre, Ambulance Station, etc., within a radius of Wells. Possession of a car for the "mobile" post for which an allowance at the appropriate rate will be paid, is essential.

Applicants for either post must have a thorough knowledge of all types of construction (traditional, steel frames, precast concrete, etc.) and be fully competent to perform the duties of a Clerk of Works.

The salary will be within the range £12 12s. 0d. to £15 0s. 0d. per week according to experience and ability.

Applicants stating age, experience and present appointment, together with the names of two technical referees, to be forwarded to reach me not later than FRIDAY, the 6th MARCH, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.

BOROUGH OF EALING.

ARCHITECTURAL ASSISTANT Required, salary within scale £780-£1,060 inclusive. Must hold recognised Architectural qualifications.

Full particulars and application form from Borough Engineer, Town Hall, Ealing, W.5. Closing date 16th MARCH, 1959.

E. J. COPE-BROWN,
Town Clerk.

Town Hall,
Ealing, W.5.

STEPNEY M.B.C. require

BUILDING WORKS ASSISTANT responsible for administration of maintenance section (150 craftsmen, etc., and workshops); experience in building trade and also as General Foreman or Clerk of Works; preferably a craftsman; accustomed to handling labour, supervise work by direct labour. Salary £780-£1,060.

Forms and other particulars from Town Clerk, 227, Commercial-road, E.1. Closing date 11th MARCH, 1959.

COUNTY BOROUGH OF CROYDON.

QUANTITY SURVEYING ASSISTANT.

Applications are invited for pensionable appointment in the Borough Engineer's Department. Duties are assisting in preparing Bills of Quantities and Variation Accounts for building works.

Salary scale rises to £1,060 per annum according to qualifications and experience.

Application form and further particulars from the Borough Engineer, Town Hall, Croydon. Closing date 16th MARCH, 1959.

E. TABERNER,
Town Clerk.

CITY OF NOTTINGHAM.

ASSISTANT QUANTITY SURVEYOR GRADE II, £725-£845.

Applications are invited for the above appointment in the Quantity Surveyor's Section of the Estates Department from persons of R.I.C.S. Intermediate standard.

The Department is embarking on a large and varied programme of multi-storey flat development in addition to housing and ancillary services and experience in these fields will be of assistance.

Applications stating age, training and qualifications, present and previous appointments and experience, together with names and addresses of two referees, are to be sent to E. W. S. Martin, F.R.I.C.S., F.R.S.H., The Estates Surveyor and Valuer, The Guildhall, Nottingham, not later than WEDNESDAY, the 1st APRIL, 1959.

T. J. OWEN,
Town Clerk.

BERKSHIRE COUNTY COUNCIL.

ASSISTANT QUANTITY SURVEYOR, Special Grade (£750-£1,030). Applicants should be capable of taking-off for large projects, and preference will be given to Associates of the R.I.C.S.

Application forms and further particulars can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., County Architect, Wilton House, Parkside-road, Reading, to whom they should be returned not later than TUESDAY, 10th MARCH, 1959.

QUANTITY SURVEYING

ASSISTANTS Required by AIR MINISTRY in LONDON and PROVINCES. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges in London £695 at age 26 rising to £870 for candidates holding O.N.C. (Building) or (Builders Quantities) or equivalent and good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. schedule an advantage. Approved full time study will count towards period of experience. Salaries somewhat lower in Provinces. Promotion and pensionable prospects. 5-day week; 3 weeks' leave a year. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write stating age, qualifications and previous appointments and including type of work done, to Manager, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Farringdon-street, E.C.4, quoting reference PE 105/745. No original testimonials should be sent. Only applicants selected for interview will be advised.

CITY OF LIVERPOOL.

ARCHITECTURAL AND HOUSING DEPARTMENT.

Applications are invited for the following appointments, viz:

(a) ASSISTANT ARCHITECTS.

(b) ASSISTANT SURVEYORS.

Salary in each case £750-£1,030 p.a. (N.J.C. Scale). Commencing salary will depend upon experience.

Applicants for—

(a) should be Associates of the Royal Institute of British Architects or hold equivalent qualification. Vacancies exist in General, Housing and Re-development Architectural Sections and preference for a particular type of work will be considered. The work involved is interesting and includes building for the education programme, other public buildings, the housing programme, including multi-storey blocks and slum clearance.

(b) should possess the A.R.I.C.S., A.M.I.Mun.E., or equivalent qualification. Persons appointed will be employed in the section dealing with estate layouts, roads and sewers.

Application forms, obtainable from the City Architect and Director of Housing, Blackburn Chambers, Dale-street, Liverpool, 2, returnable to him by 31st MARCH, 1959.

The appointments are superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

(J5545)

COUNTY BOROUGH OF GREAT YARMOUTH.

SCHOOLS ARCHITECT'S DEPARTMENT.

Applications are invited from Associate Members of the R.I.B.A. for a SENIOR ASSISTANT within Special Grade (£750-£1,030).

Candidates must have a thorough knowledge of school design and construction.

Housing accommodation will be made available to the successful candidate if married.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees should reach the Schools Architect, 22, Euston-road, Great Yarmouth, by FRIDAY, 13th MARCH, 1959.

D. G. FARROW,
Chief Education Officer.

22, Euston-road,
Great Yarmouth.

METROPOLITAN BOROUGH OF HAMPSTEAD.

Require the following staff in the Housing Architect's Department:—

1. ARCHITECTURAL ASSISTANT (TEMPORARY) Grades A.P.T. I-II. Intermediate R.I.B.A. (£575-£845); Special Grade, Final R.I.B.A. (£750-£1,030); plus London Area Weighting.

2. JUNIOR ARCHITECTURAL ASSISTANT (TEMPORARY). Grade General Division Q (£230-£700 plus London Weighting). Commencing salary according to qualifications and experience.

Successful candidates will be required to work in one of two teams engaged in the conversion of property, area re-development and the design and construction of new flats and houses.

Applications giving age, training, experience, previous appointments and the names of three referees to the Town Clerk (B), Town Hall, Haverstock Hill, N.W.3, by 11th MARCH, 1959. No housing provided.

COUNTY BOROUGH OF EAST HAM.

PRINCIPAL ASSISTANT PLANNING OFFICER, GRADE A.P.T. III. £845-£1,025.

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 13th MARCH, 1959.

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications invited for post of ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. I (£575 x £30-£725 p.a.) Applicants should have passed R.I.C.S. Intermediate Examination or equivalent and have had suitable experience in abstracting and billing and general duties in a Quantity Surveyor's office.

Applicants desiring housing accommodation should so indicate.

Details and application forms (returnable by 16th MARCH) from City Architect, Council House, Bristol, 1.

BOROUGH OF RUGBY.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above vacancy in the Borough Engineer and Surveyor's Department. Salary within the Special Grade (£750-£1,030), depending on qualifications and experience. Housing accommodation will be considered.

The appointment is subject to satisfactory medical examination the Local Government Superannuation Acts and determined by one month's notice. Further particulars and form of application may be obtained from the Borough Engineer and Surveyor, Burford House, Rugby, to whom completed applications must be sent not later than 13th MARCH, 1959.

T. L. DUFFY,
Town Clerk.

ADMINISTRATIVE COUNTY OF LEICESTER.

CHIEF BUILDINGS INSPECTOR. £845-£1,025 plus car allowance.

Candidates must have a thorough knowledge of all branches of the building trade, have had extensive experience in the supervision of large contracts for new works and for maintenance and adaptations of existing buildings. The successful candidate will be required to supervise the work of Buildings Inspectors and Resident Clerks of Works. Knowledge of local government procedures an advantage. Removal expenses and lodging allowance may be paid to a married man.

Apply by 13th MARCH on forms obtainable from County Architect, 123 London-road, Leicester.

MANCHESTER REGIONAL HOSPITAL BOARD.

Applications are invited for the following posts:—

(a) SENIOR ASSISTANT ARCHITECT. Salary £1,010-£1,195. Applicants must be Registered Architects.

(b) ASSISTANT SURVEYOR. ASSISTANT QUANTITY SURVEYOR. Salary for both posts £700-£1,015. Professional qualifications required.

(c) SURVEYING ASSISTANT. ARCHITECTURAL ASSISTANT. Salary for both posts £525-£730. Intermediate examination qualifications required.

(d) DRAUGHTSMAN. Salary £425-£635. Three years' drawing experience essential.

The salary scales are at present under review and all the posts are superannuable and subject to National Health Service conditions. Application forms and details of the posts obtainable from the Secretary, Manchester Regional Hospital Board, Cheetwood-road, Manchester, 8, to whom they should be returned not later than 21st MARCH, 1959.

BOROUGH OF HARROW.

Applications are invited for the APPOINTMENT of a MALE CLERICAL ASSISTANT in the Maintenance Section of the Department of the Borough Engineer and Surveyor, at a salary in accordance with Clerical Grade I (£565 to £640 per annum, plus London "Weighting").

Preference will be given to applicants with experience in dealing with contractor's accounts and the keeping of records in connection with building maintenance works.

The appointment will be subject to the provisions of the Local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Forms of application are obtainable from me, to whom they should be returned not later than SATURDAY, 7th MARCH, 1959.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
Harrow,
Middlesex.

CITY OF SALFORD.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications for appointment of CLERK OF WORKS are invited from men experienced in the supervision of building contracts.

The salary scale will be A.P.T. I-11 (£575 to £845), the point of entry depending on experience and the hours of work will be those of the building industry.

The appointment is not established but is superannuable and subject to satisfactory medical examination. It is determinable by one month's notice on either side.

Applications stating name, age, address, whether married or single, together with details of present and past appointments, training and experience, quoting two responsible persons to whom reference as to character and experience may be made, should be addressed to the City Engineer, Town Hall, Salford, 3, to arrive not later than 16th MARCH, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent positions:—

(a) ASSISTANT PLANNING OFFICER (Development Control), Special Grade £750-£1,030) to assist with Development Control, examining applications, site inspections, interviews with applicants, preparation of reports. Applicants should be A.M.T.P.I.; architectural qualification or experience an advantage.

(b) ASSISTANT PLANNING OFFICER (Research), Special Grade (£750-£1,030), University degree in Economics or appropriate subject with special reference to Statistics.

(c) PLANNING ASSISTANT, Grade A.P.T. II (£725-£845) for Survey, Development Plan review, Redevelopment Areas and Compulsory Purchase Orders. Candidates should have passed the Intermediate Examination of the Town Planning Institute or other appropriate body.

(d) SENIOR ASSISTANT ARCHITECT, Grade IV (£1,025-£1,175), should be A.R.I.B.A. preferably with experience in major local authority projects.

(e) ARCHITECTURAL ASSISTANT, Grade I (£575-£725).

Commencing salary according to experience; candidates should state their housing needs.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 23rd MARCH, 1959.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

1. ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, GRADE III (up to £1,090) required in:—

(A) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings, and

(B) DISTRICT SURVEYORS' SERVICE. In districts coinciding with one exception with Metropolitan Borough boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work. Application form and particulars from the Architect to the Council, County Hall, S.E.1, quoting AR/EK/15/59.

2. BUILDING SURVEYING ASSISTANTS required to carry out inspection of buildings and major maintenance and repair works, minor alterations and redecoration. Work involves preparation of specifications and estimates (in most cases based on a schedule of prices), and supervision of works by contractors and direct labour. Salary up to £860.

Application form, returnable by 27th FEBRUARY, from the Architect to the Council, County Hall, S.E.1, quoting AR/EK/17/59. (257)

LIVERPOOL REGIONAL HOSPITAL BOARD.

Applications invited for following posts on the staff of the Regional Architect, T. Noel Mitchell, B.Arch., F.R.I.B.A.

ASSISTANT ARCHITECTS (two). Salary £700 to £1,015 p.a. Candidates must be Registered Architects.

ARCHITECTURAL ASSISTANTS (two). Salary £525 (at age 21 or over) to £730 p.a. Candidates must hold Inter. R.I.B.A.

DRAUGHTSMAN. Salary £425 (at age 21 or over) to £635 p.a. Candidates must have had three years' experience in architectural drawings.

Salary scales at present under review.

Starting salaries dependent on age and/or experience.

All posts subject to N.H.S. (Superannuation) Regulations.

Applications stating post applied for, age, qualifications, details of present post and salary, previous appointments and names and addresses of three referees (two technical) to reach me by 11th MARCH, 1959.

VINCENT COLLINGE,
Secretary to the Board.

55, Castle-street,
Liverpool, 2.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

CITY ARCHITECT'S DEPARTMENT.

Consequent upon revisions to the Establishment of his Department, the City Architect will be pleased to receive applications from suitably qualified persons for the following Architectural and Quantity Surveying vacancies:—

GENERAL SECTION: A.P.T. V; A.P.T. IV: Special Class, and A.P.T. II.

EDUCATION SECTION: A.P.T. V; A.P.T. IV, and A.P.T. II.

HOUSING SECTION: A.P.T. IV; Special Class; A.P.T. II and A.P.T. I.

RE-HOUSING SECTION: A.P.T. IV; Special Class; and A.P.T. II.

QUANTITY SURVEYING SECTION: Scale "B"; A.P.T. V; and A.P.T. IV.

The salaries applicable to the above Grades are:—

Scale "B": £1,210-£1,440 per annum (subject to the recent award of the Industrial Court).

A.P.T. V: £1,175-£1,325 per annum.

A.P.T. IV: £1,025-£1,175 per annum.

Special Class: £750-£1,030 per annum.

A.P.T. II: £725-£845 per annum.

A.P.T. I: £575-£725 per annum.

The Department is engaged upon an interesting and varied programme of work, including Multi-Storey Flats, Re-development Schemes Further Education Projects, and a variety of General Building Works.

Application Forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Applicants must state the Section and Grade applied for when requesting particulars.

Closing date for receipt of completed applications: MONDAY, 16th MARCH, 1959.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
19th February, 1959.

CITY OF LIVERPOOL EDUCATION COMMITTEE.

COLLEGE OF BUILDING.

Applications are invited for the following appointments (full-time), duties to commence 1st September, 1959:—

(a) 2 LECTURERS to teach subjects of the R.I.B.A. Examinations in sandwich and part-time Architecture courses. Applicants should have a University degree in Architecture and/or Associateship of the Royal Institute of British Architects. For one of these appointments a teacher with qualifications and interest in building science is sought.

(b) LECTURER to teach subjects up to the standard of the Final Examinations of the R.I.C.S. and I.Q.S. in full-time and part-time Surveying courses. Applicants must hold Associateship of the R.I.C.S. (Quantity Surveying Section).

(c) LECTURER for Liberal Studies who will be expected to assume responsibility for the organising and teaching of Social Studies appropriate to courses in Architecture, Building and Civil Engineering. University degree essential.

For (a) and (b) appropriate professional or industrial experience is essential and teaching experience desirable. For (c) teacher training and teaching experience are essential.

Salaries (men), £1,200 x £30 to £1,350 per annum + 5 per cent. *(Women), £960 x £24 to £1,080 per annum + 5 per cent (1956 Burnham Technical Report). Commencing salaries on these scales may be assessed according to previous industrial or professional experience.

*(Plus equal pay increments.)

Further particulars and application forms (returnable by 21st MARCH, 1959) from H. S. Magnay, M.A., Director of Education, 14, St. Thomas-street, Liverpool, 1. (J.5532.)

THOMAS ALKER,
Town Clerk and Clerk to the Local Education Authority.

BOROUGH OF BURY ST. EDMUNDS.

Appointment of:—

(a) ASSISTANT ARCHITECT, Special Grade, £750-£1,030.

(b) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £575-£725.

Applications are invited for the above appointments in the Department of the Borough Engineer and Surveyor. Duties will include the design of new houses and other buildings and supervision of the Direct Labour Organisation constructing Council Houses and other architectural works in connection with the maintenance and upkeep of Corporate property.

Consideration will be given to the provision of housing accommodation.

Applicants for post (a) should preferably be either Chartered or Registered Architects and applicants for post (b) should be probationers of the R.I.B.A. preferably with not less than two years' experience.

Applications, endorsed "Assistant Architect," or "Architectural Assistant," stating age, whether married, qualifications and experience, together with the names of two referees, to be delivered to the Borough Engineer and Surveyor, (G. S. Standley, A.M.I.C.E., M.I.Mun.E.), at the address below not later than MONDAY, 9th MARCH, 1959.

RICHARD R. HILES,
Town Clerk.

Borough Offices,
BURY ST. EDMUNDS.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, Salary Grade A.P.T. I £575-£725 p.a. Successful candidate will be appointed at present salary if within the incremental scale.

Candidates must have passed the Intermediate Examination of the R.I.B.A.

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m. 14th MARCH, 1959.

A. LINDSAY CLEGG,
Town Clerk.

CUMBERLAND COUNTY COUNCIL.

Applications are invited for the appointment of a SENIOR ASSISTANT QUANTITY SURVEYOR in the County Architect's Department. Salary within A.P.T. Grade IV (£1,025 x £50-£1,175). N.J.C. Service conditions. Post pensionable. Subject to medical examination. Essential User Grade D Travelling Allowance. Housing accommodation available from time to time.

Applicants should be A.R.I.C.S. (Quantities) with experience on new school buildings, alterations and taking charge from taking-off to settlement of final accounts.

Applications, on forms obtainable from John H. Haughan, F.R.I.B.A., County Architect, 15, Portland-square, Carlisle, to be received by him not later than TUESDAY, 17th MARCH, 1959.

G. N. C. SWIFT,
Clerk of the County Council.

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

During the next two years the Board plans to spend between £4m. and £5m. on hospital developments and larger programmes are being planned to follow. The present building programme includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary-scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECT. Salary £730 x £25(2) x £30(2) x £35(5) x £40(1)-£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20(3) x £25(4) x £30(2) to £765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the grade will depend upon the applicant's age and practical experience, but will not exceed £605.

(iii) ARCHITECTURAL DRAUGHTSMAN. Salary £445 x £25(5) x £30(3)-£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle-upon-Tyne 6, not later than 5th MARCH, 1959.

CLERKS OF WORKS Re-

quired by Lambeth Borough Council for (i) housing scheme (201 flats) including 15-storey reinforced concrete "point" block. SALARY, £17 17s. per week. (ii) Municipal Offices (£50,000) and conversion and improvement work to dwelling houses. SALARY, £17 17s. per week. (iii) Housing Scheme (64 flats), 4-storey traditional building. SALARY, £15 15s. per week.

Applicants must have trained as craftsmen, have thorough knowledge of the building trade, including mechanical and electrical services and the keeping of records. For appointment (i) applicants must have had experience in the erection of multi-storey blocks of flats with specialised experience in reinforced concrete "point" blocks.

Applications giving details of age, training, experience, etc., with particular reference to the post(s) applied for, and the names of two referees, must be received by the Town Clerk, Lambeth Town Hall, Brixton-hill, S.W.2, not later than 12 noon on the 7th MARCH, 1959. Applicants should state clearly whether they wish to be considered for all posts or any one in particular.

SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

1. ASSISTANT ARCHITECT, SPECIAL GRADE. £750-£1,030 p.a. plus £30 p.a. London Allowance. Must be A.R.I.B.A.

2. ASSISTANT QUANTITY SURVEYOR, GRADE IV, £1,025-£1,175 p.a. plus £30 p.a. L.A. Must be Chartered Quantity Surveyor with experience of estimating, taking-off, valuing works in progress and final accounts for large public buildings, including all Specialist works.

3. QUANTITY SURVEYING ASSISTANT, GRADE I. £575-£725 p.a. plus L.A. of up to £30 p.a. according to age. Must have passed First Exam. R.I.C.S. and had several years' experience in an approved office.

4. ASSISTANT HEATING ENGINEER, GRADE IV, £1,025-£1,175 p.a. plus £30 p.a. L.A. A.M.I.H. and V.E. and experienced in heating and ventilating installations.

5. ASSISTANT BUILDING SURVEYOR, SPECIAL GRADE, Salary as (1) above. Must be A.R.I.C.S. (Building Sub. Div.). Capable drafting specifications in all trades, preparation Schedules of dilaps., detailed estimates for general maintenance works and surveys of properties.

6. STRUCTURAL ENGINEERING ASSISTANT, GRADE I, Salary as (3) above. Knowledge of detail and some design in steel or concrete.

Full details, present salary and 3 copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

COUNTY BOROUGH OF ROTHERHAM.

ARCHITECTURAL ASSISTANT.

ARCHITECTURAL ASSISTANT Required for established post in Grade I (£575-£725) to Special Grade (£750-£1,030), the grade and commencing salary to be according to applicant's qualifications and experience.

Housing accommodation will be available, if necessary, for the higher grade appointment.

Applications stating age, qualifications and experience with the names of two referees to be delivered to the Borough Engineer, Municipal Offices, Rotherham, not later than THURSDAY, 12th MARCH, 1959.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.
11th February, 1959.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for appointment as PRINCIPAL HOUSING ARCHITECT, to be responsible to the Architect for the Housing Division (total staff about 340), which is responsible for the design and erection of most of the Council's housing. Experience of public architecture is not essential but the person selected must be able to organise, lead and inspire a large division. Commencing salary according to qualifications and experience within scale £2,450-£100-£2,650 a year. The position is permanent and pensionable. Further particulars and application form from Clerk of the Council (CL/G), County Hall, London, S.E.1, returnable by 23rd MARCH, 1959. (332.)

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist in Quantities Division of Architect's Dept. for:—

(A) QUANTITY SURVEYING ASSISTANTS with not less than 3 years' experience in an approved office and with Inter. R.I.C.S. qualification to undertake duties in the several branches of the division. Salary up to £860 according to experience.

(B) TECHNICAL ASSISTANTS experienced in Working-Up. Salary up to £12 8s. weekly.

Application form and particulars from Huberi Bennett, F.R.I.B.A., Architect to Council, Ref. AR/EK/12/59, County Hall, S.E.1. (209.)

URBAN DISTRICT COUNCIL OF BASILDON

(Population 75,000; 27,000 acres).

BUILDING INSPECTOR (Established)—within A.P.T.I. (£575-£725).

Applicants for this appointment should be suitably qualified and preferably hold the Building Inspectors' Certificate of the Institution of Municipal Engineers or equivalent.

Housing considered. An essential user car allowance is payable.

Full particulars and application form from, and the latter returnable to, Mr. S. A. Wadsworth, A.M.I.C.E., A.M.I.Mun.E., Engineer and Surveyor, Council Offices, High-street, Billericay, Essex. Closing 13th MARCH.

CITY OF BIRMINGHAM EDUCATION COMMITTEE.

Applications are invited for the following full-time teaching posts to commence duty on the 1st SEPTEMBER, 1959. Application forms and further details may be obtained from the Principal of the College (stamped addressed envelope) and should be returned to him as soon as possible. Salary scales:—

LECTURER: £1,260 x £31 10s.-£1,417 10s.

ASSISTANT, Grade "B": £682 10s. x £26 5s.-£1,076 5s.

ASSISTANT, Grade "A": £498 15s. x £26 5s.-£945.

Candidates may be granted additional increments above the minimum of the scales for time spent in industry, commerce, professional work or research. There are also additions to the Assistants' scales for a degree or for equivalent professional qualifications.

BROOKLYN TECHNICAL COLLEGE, Aldridge-road, Great Barr, Birmingham, 22A.

Principal: G. H. Palmer, M.Sc., A.Inst.P.

LECTURER—mainly for senior work in Ordinary National Certificate and Diploma courses in Building and Structural Engineering. Applicants should have a degree or equivalent qualification (minimum Higher National Certificate). Qualifications and experience in reinforced concrete work desirable.

ASSISTANT, Grade "B" to teach general subjects in Ordinary National Certificate and Diploma courses in Building and Structural Engineering. Applicants should be suitably qualified in building subjects (e.g. H.N.C., L.I.O.B., etc.). Preference will be given to candidates able to teach Mathematics and Applied Science.

MATTHEW BOULTON TECHNICAL COLLEGE,
Suffolk-street, Birmingham, 1.
Principal: J. C. Martin, M.A., A.M.I.E.E., A.M.Brit.I.R.E.

One ASSISTANT, Grade "B," one Grade "A," for Science and Building Department, to share Building Craft Subjects in City and Guilds Courses, in Brickwork, Carpentry and Joinery and Plumbing.

E. L. RUSSELL,
Chief Education Officer.

CORPORATION OF BARKING.

DEPARTMENT OF THE BOROUGH ARCHITECT.

ARCHITECTURAL ASSISTANT—
—A.P.T.I.

Applications are invited from persons of Intermediate R.I.B.A. standard for the above appointment on Grade A.P.T. I (£575 by £30 per annum to £725 plus London Weighting £20 or £30 per annum according to age).

The person appointed will have the opportunity to assist in the preparation of housing and redevelopment schemes and other works of varying character.

Applications, on forms obtainable from the Borough Architect, Town Hall, Barking, should reach the undersigned not later than 16th MARCH, 1959.

E. R. FARR,
Town Clerk.

COUNTY BOROUGH OF CROYDON.

ARCHITECTURAL ASSISTANTS.

Applications are invited for APPOINTMENTS ON GENERAL ARCHITECTURAL WORK within the following grades:—

A.P.T. I: £595 to £755 p.a. including London Weighting.

A.P.T. II £745 to £875 p.a. including London Weighting, rising when fully qualified to £1,060 p.a. (incl.)..

Salary commencing according to qualifications and experience. Applicants for the higher appointments should have passed the R.I.B.A. Intermediate Examination.

Further particulars and application form from the Borough Engineer, Town Hall, Croydon. Closing date 16th MARCH, 1959.

E. TABERNER,
Town Clerk.

SOUTHERN ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANT.

Sub-Area Office of No. 3 (Portsmouth) Sub-Area. Salary, N.J.B. Schedule "D." Grade 5 (£790 x £20-£890 per annum). N.J.B. Conditions of Service.

Candidates should have had experience in an Architect's office and be capable of designing and administering, during the construction stage, building work in connection with offices, showrooms, workshops, etc. The possession of suitable qualifications would be an advantage.

The successful applicant will be required to contribute to the Electricity Supply (Staff) Superannuation Scheme, if eligible.

Applications on forms obtainable from the Sub-Area Secretary, Lower Drayton-lane, Cosham, Portsmouth, and returned, quoting Z.992, not later than MARCH 9, 1959.

NORTH-EASTERN REGIONAL HOSPITAL BOARD, SCOTLAND.

REGIONAL ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:

(a) ONE ASSISTANT ARCHITECT, Salary £700 to £1,015.

(b) THREE ARCHITECTURAL ASSISTANTS, Salary £525 to £730.

In each case the salary is subject to a 6 per cent deduction for superannuation, but the salary may be fixed within each Grade by reference to relevant experience and age.

In addition to its normal Building Programme, the Department is concerned with the planning and execution of a number of major hospital projects, and the posts offer ample opportunity to gain first-class general and hospital experience.

Applicants for post (a) should be registered Architects having practical experience of the design, planning and construction of public buildings.

Applicants for posts (b) should preferably be registered Architects having a sound practical training in design and construction.

Applications, stating age, qualifications, past and present appointments, training and experience, together with the names of two referees, should be forwarded to The Secretary of the Board, P.O. Box 28, 1 Albyn Place, Aberdeen, not later than 20th MARCH, 1959.

CITY OF LEICESTER.

CITY ARCHITECT'S DEPARTMENT.

QUALIFIED ARCHITECTS with enthusiasm for Education work are required for the following posts:—

(a) Chief Assistant Architect, Grade "A" £1,190-£1,390, the commencing salary according to experience.

(b) Assistant Architect, Grade A.P.T. IV, £1,025-£1,175.

(c) Assistant Architects, Special Grade, £750-£1,030.

Previous Local Government experience not essential.

Appointments will be subject to the National Scheme of Conditions of Service, passing a medical examination and one month's notice on either side.

Applications, stating post applied for, together with names of two referees, should reach the undersigned not later than THURSDAY, 12th MARCH, 1959.

J. H. LLOYD OWEN,
City Architect.

10 Loseby-lane,
Leicester.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointments:—

SENIOR ASSISTANT ARCHITECT, Grade IV (£1,025-£1,175).

ARCHITECTURAL ASSISTANT, Grade II (£725-£845).

London Weighting is paid in addition, and salaries in excess of the minima may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than 3 years.

Further details and application forms returnable by 13th MARCH, 1959, from the Town Clerk, Town Hall, East Ham, E.6.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECTS. Special Grade (£750-£1,030 per annum). Qualifications: A.R.I.B.A.

(b) ASSISTANT ARCHITECT, A.P.T. Grade I (£575-£725 per annum). Qualifications: Intermediate R.I.B.A.

Commencing salary according to qualifications and experience.

Permanent superannuable appointments, subject to one month's notice and to medical examination.

National Conditions of Service.

Application forms obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street, Derby, not later than MONDAY, 9th MARCH, 1959.

G. H. EMLYN JONES,
Town Clerk.

13th February, 1959.

COUNTY BOROUGH OF BLACKPOOL.

Applications (by FRIDAY, 6th MARCH, 1959) are invited for the following posts in the Borough Surveyor's Department:—

ASSISTANT ARCHITECTS (Special Scale £750-£1,030 per annum).

ARCHITECTURAL ASSISTANTS (A.P.T. I, £575-£725 per annum).

Application forms and particulars obtainable from the Borough Surveyor (Arthur Hamilton, A.R.I.B.A.), P.O. Box 17, Municipal Buildings, Blackpool.

ERNEST C. LEE,
Town Clerk.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

ARCHITECTURAL ASSISTANTS required. Salary scale £545-£760 per annum. Point of entry according to experience. Inter R.I.B.A. essential. Superannuable. Apply naming two referees to Secretary, R.H.B., 10, Augustus-road, Birmingham 15, by 13th MARCH, 1959.

CITY OF CARDIFF.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYORS.

Applications are invited from qualified and experienced Quantity Surveyors for the appointment of SENIOR ASSISTANT QUANTITY SURVEYORS, A.P.T. Grade IV, £1,025-£1,175 per annum.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of three referees, and endorsed "Senior Assistant Quantity Surveyor—A.P.T. Grade IV," must be delivered to me not later than 10th MARCH, 1959.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
February, 1959.

NORTHERN IRELAND HOUSING TRUST.

ASSISTANT ARCHITECTS.

The Trust has vacancies for ASSISTANT ARCHITECTS on scales ranging from £873-£1,158. Placing will be in accordance with qualifications and experience.

The persons appointed will be required to participate in a contributory superannuation scheme which allows for the reciprocal transfer of benefits in Local Government Schemes.

Assistance in obtaining housing accommodation may be given to successful married candidates.

Applicants should apply, by WEDNESDAY, 4th MARCH, 1959, giving full details of age, qualifications and experience, including present post and salary to the General Manager, Northern Ireland Housing Trust, 11 Hope-street, Belfast.

Please mark envelope 33/70.

WEST SUFFOLK COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the following posts:—

(a) ARCHITECTURAL ASSISTANT, within A.P.T. Grade II (£725-£845).

(b) JUNIOR ARCHITECTURAL ASSISTANT, within A.P.T. Grade I (£575-£725).

N.J.C. Service Conditions; posts pensionable; medical examination.

Application forms obtainable from the County Architect, 13, Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

CLERK OF WORKS.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF.

Applications for appointment of CLERK OF WORKS invited for new Botany and Geology laboratories in Cathays Park, Cardiff, to start May, 1959. Contract approximately £400,000 including fittings, to be completed in three years, with possibility of additional concurrent contract. Appointment will not extend beyond end of building contracts. Salary £1,000 per annum on first contract.

Holidays: Two weeks plus statutory holidays.

Apply in writing by the 10th MARCH with details of age, experience, testimonials to Caroe & Partners, FF.R.I.B.A., 16 Great College-street, Westminster, S.W.1.

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Salary, according to experience, within £800-£1,000.

Applications, giving name in full, date of birth, with details of qualifications and experience, and accompanied by two testimonials to:—Sir Robert Adcock, Clerk to the Joint Committee, Wigan and District Mining and Technical College, County Hall, Preston, and to be received not later than 9th MARCH, 1959.

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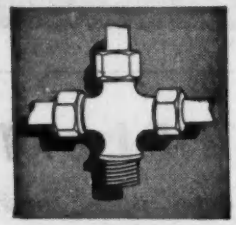

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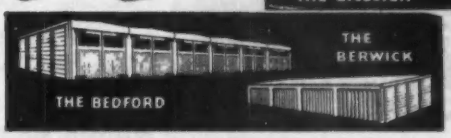

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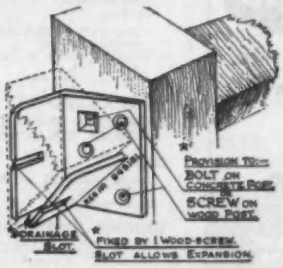

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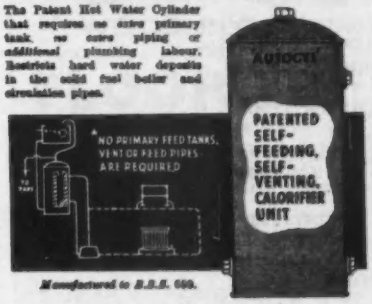

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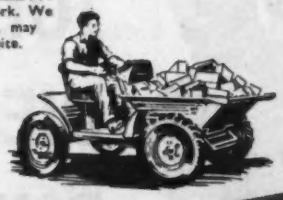

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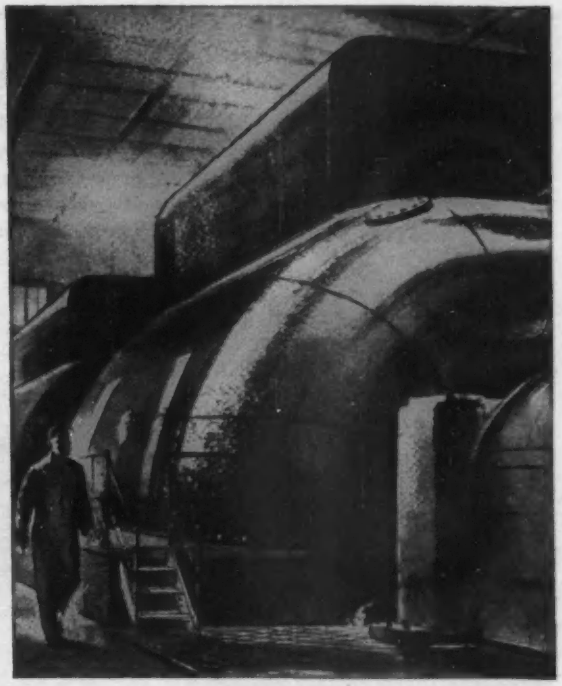

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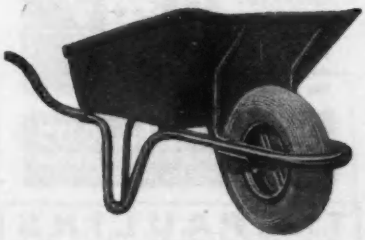

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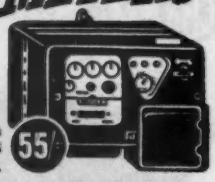

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BUILDING SURVEYOR, capable of taking-off. Good prospects. Pension Scheme after probationary period.—Write giving details of experience and salary to CHAPMAN, LOWRY & PUTTICK, Ltd., Haslemere, Surrey.

VACANCIES exist for PRODUCTION SURVEYORS in a substantial firm of North London Building Contractors. The men to be appointed will be based on Head Office and responsible for operating in conjunction with contract site staff an integrated scheme of operational planning and site cost control. Applicants should be aged 24/30 years and educated to at least H.N.C. (Building) standard. A good background of experience in building operations is essential plus the ability to prepare accurate quantities from drawings, prepare programmes for site operations and measure work completed on site. Good salary and prospects. Staff pension scheme. Please reply in confidence giving details of age, education, experience and salary required to Personnel Officer, H. FAIRWEATHER & CO., Ltd., Hyde Works, St. James's-lane, London, N.10.

BUILDING SURVEYOR or BUILDERS' MANAGER Required for Shrewsbury and district. Responsible only to Managing Director. Average of 60 men, all trades, work mostly Housing Estate development for sale on reasonably large scale including roads and sewers. Good, general experience of building trade essential. Some technical qualification an advantage. Very promising and progressive position of permanent character for a young or early middle aged man of energy and ability. Assistance in housing if required.—State experience, salary required, etc. Salary range £800 to £1,000.—FLETCHER ESTATES, Ltd., Whitchurch-road, Shrewsbury.

BUILDING SURVEYOR Required, age 22/26, R.I.C.S. Intermediate standard.—Apply E. H. D. HILLIER, PARKER, MAY & ROWDEN, 77, Grosvenor-street, London, W.1. MAYfair 7666.

MEASURING SURVEYOR (with I.O.B. or I.Q.S. qualifications) with experience on contracts up to £100,000. Will be required to assist generally with contract administration up to and including final accounts. Applications which will be treated confidentially, stating age, full details of experience, technical qualifications and indication of salary required, to J. H. DURRANT & SON Ltd., 282, High-street, Rochester.

SURVEYORS

Required in London Office by Civil Engineers and Contractors. Applicants should be between 25 to 35 years of age, with H.N.C. L.I.O.B. or similar qualifications.

Experience in taking-off for reinforced concrete work would be an advantage.

These positions will carry a first-class salary according to experience and ability.

A Pension and Life Assurance Scheme will apply after a satisfactory trial period. Please write stating age, qualifications, experience and salary required to the Chief Surveyor, The London Ferro-Concrete Co. Ltd., 247/249 Vauxhall Bridge Road, London, S.W.1.

TURRIFF CONSTRUCTION CORPORATION LIMITED, Atomic Energy Contract, Winfrith Heath, Require BONUS SURVEYORS. Long-term prospects; good pay and conditions.—Write full details of age, experience, etc., to Personnel Manager, Budbrooke-road, Warwick.

BUILDING AND MEASURING SURVEYOR Required, capable of handling contracts £5,000 to £250,000.—Reply with full particulars of experience to Box 1634, "The Builder."

SURVEYOR Required by S.E. London firm of Contractors with some experience of estimating and final accounts for small contracts and jobbing. Must be accustomed to site measurements and to assist senior Surveyor.—State age, experience and salary required to Box 1635, "The Builder."

YOUNG SURVEYOR (about 25) Required by Flooring Specialists (South East London) for Site Measurement, preparation of final accounts, etc. —Apply stating age, experience and salary required to Box 1636, "The Builder."

CHARTERED QUANTITY SURVEYORS Require MEASURING SURVEYOR on site, Culcheth, near Warrington. Reply giving age, experience and salary required.—Box 1637, "The Builder."

QUANTITY SURVEYOR

for West End London Contractor's Office to take full responsibility. Part of the duties will be associating with a Planning Department in relation to Quantities. Scope for advancement. Non-contributory Pension Scheme. Age 30/35. State salary range contemplated.

Box No. 1730, "The Builder"

EXPERIENCED MEASURING SURVEYORS Required by London Quantity Surveyors for site measuring and preparation of Final Accounts. 5-day week. Pension and Life Assurance Scheme. Commencing salary for successful applicants £1,150 per annum, plus overtime. Must be car driver; car provided. Write stating age and experience.—Box 1638, "The Builder."

LARGE firm of Painting Contractors Require YOUNG SURVEYOR, 20-23, for London office. National Service must be completed. Good salary and excellent prospects for the right man who has ability and not afraid of hard work.—Box 1639, "The Builder."

FULLY QUALIFIED ESTIMATING/SURVEYOR

(Age 25/30)

For Jobbing Department of one Company in this Group, knowledge of alterations and decorations essential.

Only ambitious applicants anxious to progress further in their career are invited to reply. Offices in Central London. Bonus on results and non-contributory Pension Scheme. Reply stating age, experience and salary range contemplated to Box No. 1745 The Builder.

SURVEYORS (Senior and Junior) Required for London Contractor's office. Experience in taking-off and measuring reinforced concrete. Permanent, progressive and pensionable. Write experience and salary required.—Box 944, "The Builder."

MEASURING SURVEYOR for London Quantity Surveyors, able to handle interim Valuations, Deviations and Final Accounts.—Write stating age, experience and salary required to Box 933, "The Builder."

MEASURING SURVEYORS Required by London firm of Chartered Quantity Surveyors for permanent staff. Five-day week.—Write, stating age, experience and salary required to Box 966, "The Builder."

CHARTERED QUANTITY SURVEYOR, Carlisle, has vacancy for good all-round man, TAKER-OFF AND MEASURING SURVEYOR.—Particulars and salary required to Box 1640, "The Builder."

CHARTERED QUANTITY SURVEYORS, W.C.2, have vacancy for ASSISTANT with some experience in quantity surveyor's office of junior taking-off and site measuring, etc. Also JUNIOR for working-up.—Reply stating age, education, training, practical experience, salary, etc., Box 1641, "The Builder."

ASSISTANT SURVEYOR Required.—Apply Mr. A. Battershill, R. D. HOPE & Co., Ltd., Building Contractors, 13-15 Selsdon-road, South Croydon, CRO. 9262.

ASSISTANT MEASURING SURVEYOR Required, Site Measurements, Sub-Contractors, Final Accounts.—Apply with particulars, KIND & CO. (BUILDERS), Ltd., 564 High-road, Leytonstone, E.11.

EXPERIENCED SURVEYOR'S ASSISTANT for Building Survey Dept. in old-established firm of Land and Estate Agents in Tunbridge Wells.—State experience and salary to Box 1642, "The Builder."

OFFICE JUNIOR Required by City firm of Chartered Quantity Surveyors. Youth 16 or 17 leaving school. Excellent opportunity to train for profession.—Write stating age, education, etc., to Box 1643, "The Builder."

PLUMBING SPECIALISTS Require a SURVEYOR, a SURVEYOR CONTRACTS MANAGER and a BUYER able to order from drawings for contracts worth £20,000 to £100,000 each. Good salaries, bonus and pension. Excellent prospects in progressive expanding organisation in London. —Box 924, "The Builder."

WANTED by City Builders, SURVEYOR/ESTIMATOR with experience for placing tradesmen and following small contract work to completion including final account.—Write stating age, experience and salary required to Box 1709, "The Builder."

JUNIOR ESTIMATING SURVEYORS Required by well-known firm of Building and Civil Engineering Contractors operating in U.K. and Abroad.—Applicants should apply in writing giving age, details of experience and salary required to Box 1682, "The Builder."

ESTIMATOR SURVEYOR

required by large London firm of Building Contractors. Must be fully experienced in taking off quantities from drawings and estimating generally. Permanent and pensionable position for suitable applicant. Full personal details, experience and salary required, in confidence, to Box 1660

BUILDING SURVEYORS (£705-£935 per annum, according to experience). Experience in measuring, materials schedules, essential; knowledge of final billing an advantage. Five-day week. Pension scheme (including Widows and Orphans); med. exam. —Applications, with full details, together with names and addresses of two referees, to undersigned by 10th March, 1959. E. A. Colley, General Manager, CITY OF BIRMINGHAM DIRECT LABOUR BUILDING DEPARTMENT, 37 Rotton Park-street, Birmingham, 16.

BUILDERS' SURVEYOR Required for site measuring, final accounts and assisting in the running of medium-sized contracts. Good prospects, pension scheme.—Write full details, experience and salary required.—Box 1731, "The Builder."

CHARTERED QUANTITY SURVEYOR, W.1, Requires SENIOR ASSISTANT to act as MANAGING SURVEYOR; must be capable Taker-off, have all-round experience and be prepared to commence duties within three months of appointment. Salary up to £1,250 per annum.—Box 1756, "The Builder."

SURVEYOR Required by Builders for work in London Area. Appointment is permanent and non-contributory pensions scheme is in operation. —Replies giving age, experience and salary required to Box 1757, "The Builder."

MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Branch Office in Harlow New Town, Essex. Five-day week; pension scheme, and excellent working conditions. Housing accommodation may possibly be arranged. State age, experience and salary required.—Box 1734, "The Builder."

MEASURING SURVEYOR, with ability to agree rates for Final Accounts. Required for Contracts in West Surrey area, up to £100,000.—Write full particulars of experience, etc., to Box 1733, "The Builder."

ESTIMATING SURVEYOR Required for General Works Department of London Builders and Contractors. Take-off quantities from drawings and specification, measure sites, supervise works in progress and prepare final accounts. Draughtsmanship an advantage.—Write with full details of age, experience and salary required to Box 1782, "The Builder."

QUANTITY SURVEYORS Require ASSISTANT for work in connection with Final Accounts in Plymouth and Cornwall. Experience, salary required, etc., to Box 1716, "The Builder."

BOURNEMOUTH AREA QUANTITY SURVEYORS Require ASSISTANT with good all-round experience of taking-off and measurement on Site.—Box 1717, "The Builder."

ASSISTANT JUNIOR MEASURING SURVEYOR Required. Capable of taking-off from plans and specifications, measuring with sub-contractors, and site variation orders. Experience in the work is necessary, age preferably about 25 years. Write stating age, concise details of experience and salary required.—TRUETT & STEEL Ltd., High-street, Thornton Heath, Surrey.

PEMBROKESHIRE Building Surveyor Requires ASSISTANT. Some experience measuring, valuations, final accounts or drawings. State age, experience, salary.—LINE, Lower Spring-gardens, Haverfordwest.

JUNIOR BUILDING ESTIMATING SURVEYOR Required for national firm of Building and Civil Engineering Contractors at their Mayfair office. Applicants aged 21 to 30 should have L.I.O.B. or equivalent and at least two years' experience with reputable Building Contractors. The position offers scope for advancement to the right person. Contributory Pension Scheme, luncheon facilities.—Write giving full particulars and quoting Reference WE.1.2./49/58 to Secretary, HOLLOWAY BROTHERS (LONDON), Ltd., 157 Millbank, London, S.W.1.

JUNIOR SURVEYOR Required for Billing Precast Concrete Units and dealing with price variations. Excellent working conditions; five-day week.—Write stating age, experience and salary required to STENT PRECAST CONCRETE Ltd., Chequers-lane, Dagenham Dock, Essex.

Q.S. Requires QUALIFIED ASSISTANT for varied work in London office. Commencing salary between £900-£1,000 p.a.—Full details to D. A. DEGERDON, 12, Goodwins-court, W.C.2.

ASSISTANT SURVEYOR, age 20 to 23, Required as TAKER-OFF. Experienced in site measuring an advantage. Permanent pensionable position.—Apply in writing stating age, experience and salary required, to Projects Manager, GOUGH COOPER AND COMPANY Ltd., Wilmington House, Wilmington, Dartford.

JUNIOR Required in Gray's Inn Quantity Surveyors' office to assist in working-up. Experience in working-up is not essential provided basic grounding has been obtained. Reply stating age, experience and salary required.—Box 1720, "The Builder."

QUANTITY SURVEYORS' JUNIOR ASSISTANT Required for position in Chartered Quantity Surveyors' Office. A keen ambitious lad required wishing to start in a profession.—Apply stating age, and academic attainment to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, W.1.

JUNIOR ASSISTANT, approx. intermediate standard, for small firm West End Quantity Surveyors for preparing final accounts and working-up. Details of education, etc.—Box 1758, "The Builder."

BOND, FOSTER & PARTNERS LTD.

CHARTERED QUANTITY SURVEYORS

BIRMINGHAM, LONDON, WELLINGTON (SALOP) AND TRURO

Two Senior Takers-off required, preferably Chartered for our Wellington Office. Apply in writing giving full details of experience, references, age and salary required to 6, Walker Street, Wellington, Shropshire.

LIVERPOOL CHARTERED QUANTITY SURVEYORS Require TAKER-OFF; five-day week; luncheon vouchers. State salary required and experience.—Box 1644, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (A.R.I.C.S.) Required by London Quantity Surveyors, Holborn Area. Pension and Life Assurance Scheme. State age, and experience. Salary £1,350 per annum.—Box 1645, "The Builder."

SMALL FIRM LONDON QUANTITY SURVEYORS Require TAKER-OFF having at least 4 years' taking-off experience.—Reply stating age, salary, experience to Box 1646, "The Builder."

TAKING-OFF ASSISTANTS, Final and Intermediate standards, Required by old-established firm of Quantity Surveyors in Westminster, close to Victoria station. Permanent position. Five-day week. Overtime extra. Apply in own handwriting stating experience, age and salary required.—Box 1647, "The Builder."

TAKERS-OFF and WORKERS-UP Required by London firm of Chartered Quantity Surveyors for permanent staff. Five-day week.—Write, stating age, experience and salary required, to Box 948, "The Builder."

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyors' office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

TAKERS-OFF, SENIOR and JUNIOR, Required by City firm of Quantity Surveyors for work in London or the Home Counties.—Box 1648, "The Builder."

TAKERS-OFF who have passed the R.I.C.S. Intermediate Examination Required for permanent positions with London Quantity Surveyors. Five-day week.—Reply giving full details of experience and salary required, to Box 1649, "The Builder."

TAKING-OFF ASSISTANTS, Final and Intermediate standards, Required by old-established London firm's branch office in Swindon. Five-day week. Overtime extra. Reply in own handwriting with full particulars of experience and salary required.—Box 1650, "The Builder."

FENCING CONTRACTORS Require keen young man for taking-off and ordering materials, etc. Previous fencing experience an advantage.—Apply in writing, VARDALE FENCING CO., Ltd., 68/76, Varcoe-road, S.E.16.

SENIOR TAKER - OFF (preferably A.R.I.C.S.) Required by London Quantity Surveyors for position of responsibility. Five-day week.—Write stating age and salary required and giving full details of experience, to Box 1651, "The Builder."

SMALL MEDIUM OFFICE of Chartered Quantity Surveyors, W.C.2, offer permanent post to SENIOR TAKER-OFF, A.R.I.C.S., aged approximately 30, who has had all-round experience and is able to deal with contracts up to £100,000 without supervision. Varied and interesting practice offering secure future to suitable applicant. Only first-class men with a willingness and ability to work hard need apply. Salary approximately £1,200 per annum.—Please reply, stating age and experience, to Box 1702, "The Builder."

CHARTERED QUANTITY SURVEYOR outskirts of West London Requires ASSISTANT for taking-off, site measuring and working-up.—Write Box 1698, "The Builder."

CHARTERED QUANTITY SURVEYORS Require TAKERS-OFF of Intermediate, or Final Standard.—Apply stating age, experience and salary required to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, W.1

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR Required for a large Site Contract in N.E. England. Good salary paid to suitable applicant.—Please reply stating age and experience to Box 1736, "The Builder."

EXPERIENCED TAKER-OFF, preferably A.R.I.C.S. Required in S. Kensington office. Varied and interesting work.—Particulars of experience, salary, etc., to Box 1737, "The Builder."

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors in their office at Luton. Five-day week. Opportunity for advancement.—Write stating age, experience, etc., to Box 1740, "The Builder."

CAPABLE TAKER-OFF Required by Chartered Quantity Surveyors. 5-day week; pension scheme.—State age, experience and salary required to Box 1732, "The Builder."

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR Required in North of England for a large Site Contract. Good salary for suitable man.—Please reply stating age and experience to Box 1735, "The Builder."

CHIEF WORKER UP

required by
London firm of Quantity Surveyors

Permanent position for experienced senior man. Good salary with pension scheme. Applications (in confidence) should include full details of past experience.

Box No. 1652 "The Builder"

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 919, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

WORKER-UP is Required in N.E. England for a large site contract by a firm of Chartered Quantity Surveyors.—Write stating age, experience and salary required to Box 1653, "The Builder."

WORKER-UP who is prepared to make working-up his career required for a PERMANENT APPOINTMENT in London office of West End firm of Chartered Quantity Surveyors. Good salary paid to suitable applicant. L.V.'s. Five-day week and Pension Scheme.—Write stating age, experience, etc., to Box 1654, "The Builder."

WORKER-UP Required in Chartered Surveyors' London office.—Apply Box 983, "The Builder."

WORKER-UP, experienced assistant, Required in old-established Chartered Quantity Surveyors' office in London, W.1. Good salary and conditions. 5-day week, overtime available.—State full details, Box 1695, "The Builder."

WORKER-UP, experienced professional office only. Age 26-30. Required S. Kensington office.—Particulars in own handwriting and salary expected to Box 1738, "The Builder."

WORKER-UP with not less than three years' experience Required by Chartered Quantity Surveyors near Holborn. Five-day week. Good salary for capable worker.—Write stating age, experience, etc., to Box 1739, "The Builder."

WORKER-UP/JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors in W.1. Excellent prospects. Five-day week.—Box 1729, "The Builder."

COMPETENT WORKER-UP, also JUNIOR, Required by Victoria-street Chartered Quantity Surveyors. Five-day week. Good prospects. Salary according to experience.—Write stating experience and age to Box 1727, "The Builder."

CHIEF WORKER-UP Required. Salary £1,200 per annum. Pension scheme.—Box 1776, "The Builder."

RESIDENT ENGINEER

required by Insurance Company to work under the direction of the Architect and the Consulting Engineer during construction of large new head offices in Birmingham suburb, in about three months' time.

Applicants to have first class experience of concrete inspection and quality control, also supervision of bored piling. Additional experience of all trades would be an advantage although not essential.

Apply fully in writing in the first instance stating age, education or training, experience including any special concrete courses (C. & C.A.), with salary required to :—

Henry M. Hale and Partners,
Consulting Engineers,
125, Edmund Street, Birmingham, 3.

APPLICATIONS are invited for the positions of :—(a) ASSISTANT RESIDENT CIVIL ENGINEER, and (b) BUILDING INSPECTOR, for new power station at Padiham, Lancashire.—Write stating age, experience and salary required to C. S. ALLOTT & SON, 1 North-parade, St. Mary's Parsonage, Manchester 3.

AREA ENGINEER (QUALIFIED) Required by northern Building and Civil Engineering Contractors to supervise up to six contracts in the Yorkshire-Lancashire area. Candidates, who should be over 35, must possess extensive experience of earth moving, piling (bored and driven), R.C. construction and general buildings. The appointment will also entail certain project work for future contracts. Salary will be commensurate with duties, qualifications, experience and age.—Applications marked AR/EN in strictest confidence to Box 1741, "The Builder."

SENIOR ENGINEER Required to control the work of a Civil Engineering Department of Builders and Contractors mainly on private development.—Reply with all details to Box 1748, "The Builder."

PLANNING ENGINEER (Senior) of proved ability Required for pre-planning/programming building projects all sizes, London/Southern Counties. Craft and work-study training an advantage. Staff bonus and pension schemes; possible assistance housing accommodation. To operate from Gerrards Cross.—Applications, giving full details of training and experience to Director, Y. J. LOVELL & SON Ltd., Gerrards Cross, Bucks.

NORTH & PARTNERS, Chartered Architects, Maidenhead, Require experienced CLERK OF WORKS for new store building in Ilford. Salary £750-£1,000 per annum.

APPLICATIONS are invited for the position of A CLERK OF WORKS on a large factory project in Letchworth. Must be fully conversant with Reinforced Concrete, Steel, General Building Construction and able to organise. Applicants should apply in writing to Hugh D. Roberts, F.R.I.B.A., 30, Brock-street, Bath, giving details of past experience, references, age, and availability to commence. Salary £800-£1,000 per annum, according to suitability. Duration approximately 12 months.

CLERK OF WORKS, preferably aged between 35-45, with wide technical administrative and co-ordinating experience, Required by The Hammerson Group of Companies for their Bradford Central Development project.—Write in first instance giving details of experience to the Architects, CLYDE YOUNG & BERNARD ENGLE, 8, New Square, Lincoln's Inn, W.C.2.

CLERK OF WORKS. An experienced man, with good Clerk of Works experience, will be Required in April for new commercial head offices in Burnley. Applicants should give references and experience and state own trade, age and salary required, to HARRY S. FAIRHURST & SON, F./A.R.I.B.A., 55 Brown-street, Manchester, 2.

ESTIMATOR/SURVEYOR, experience of contracts to region of £50,000, General Building and Decorating, with progressive firm Ilford area.—Write stating age, experience and salary required to Box 1655, "The Builder."

PAINTING AND DECORATING contractors in the London area, Require young man for their estimating department. Able to measure and prepare Bills of Quantities essential. Some knowledge of Final Accounts an asset.—Box 1656, "The Builder."

SENIOR ASSISTANT ESTIMATOR Required for London office of established expanding National Firm of Building and Civil Engineering Contractors. Excellent opportunity and genuine scope for advancement for a keen man with experience of tendering for works up to one million pounds. Excellent salary, etc., offered.—Apply stating age, experience and salary required, Box 1657, "The Builder."

APPLICATIONS are invited for the post of SENIOR ESTIMATOR with Building and Civil Engineering Contractors with Head Office in Lancashire. Applicants must have had actual experience of Tendering for contracts up to £1,000,000 in value and covering Housing, Multi-Storey construction and Industrial work. The post is permanent and pensionable.—Apply in confidence giving full details of experience and stating the salary required to Box 1658, "The Builder."

ESTABLISHED REINFORCED CONCRETE SPECIALISTS, near Victoria Station, S.W.1, have vacancies for ESTIMATORS and TAKERS-OFF. Five-day week. Pension Scheme. Luncheon Vouchers given.—Write stating age, experience and salary required to Box 959, "The Builder."

ESTIMATOR/SURVEYOR (aged 30-40 years) Required by well-known East London Contractor. Must have had good experience in taking-off and pricing Bills of Quantities for medium-size contracts, and dealing with Valuations and Final Accounts.—Write giving full details of past experience and salary required to Box 1659, "The Builder."

JOINERY ESTIMATOR. An experienced JOINERY ESTIMATOR Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & CO., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

THE MITCHELL CONSTRUCTION COMPANY, LTD. invites applications for appointments as ASSISTANT ESTIMATORS at their Head Office, Wharf Works, Peterborough. Applicants should have had some experience in preparing tenders, with previous experience as site engineer in all or any of the following: heavy reinforced concrete foundations and structures, industrial buildings, trunk roads and bridges, drainage and water mains. Permanent appointment; entry into Superannuation scheme arranged after 12 months' service.—Write in strict confidence giving full details of previous experience.

One Senior Estimator

(Age 30-35)

For building contracts up to £100,000 in value. Only ambitious applicants anxious to progress further in their career are invited to reply. Offices in Central London. Bonus on results and non-contributory Pension Scheme. Reply stating age, experience and salary range contemplated to **Box No. 1744 The Builder.**

JUNIOR ESTIMATOR/SURVEYOR Required immediately by KENTISH CHURCH BUILDERS, Ltd., to combine with a Lay-clerkship (tenor singer) in the Choir of Rochester Cathedral.—Write, stating qualifications to Diocesan House, Boley-hill, Rochester.

BUILDER'S ESTIMATOR/SURVEYOR Required for all types of building, alterations and decorating works in North-West London area.—Please apply stating age, experience and salary required to Box 1609, "The Builder."

ESTIMATOR-SURVEYOR Required for small works department. Capable of measuring on site or from drawings, working-up, billing and pricing. Superannuation scheme.—Apply in writing, giving age, qualifications, experience and salary required, to M. HOWARD (MITCHAM), Ltd., Wandle House, London-road, Mitcham, Surrey.

ESTIMATORS Required for central estimating department of Contractors specialising in heavy foundation work. Offices Westminster.—Box 1683, "The Builder."

SHOPFITTING ESTIMATOR with current experience for London Company. Accommodation available.—Write full details, Managing Director, UNIVERSAL SHOPFITTING CO., Lower Sydenham, S.E.26.

HUMPHREYS LIMITED

199, Knightsbridge, London, S.W.7

Require the following staff:

ESTIMATORS: To assist Chief Estimator on a wide range of building and civil engineering work, must have had experience on substantial projects with reputable firms and be capable of producing detailed make-ups.

PRODUCTION DEPARTMENT: Men capable of measuring for unit cost and bonus, must be mobile in and around London. Also young men to learn system and assist generally.

WORKERS UP: Professionally trained and capable of acting on own initiative in connection with substantial accounts, must be prepared to extend their scope beyond that of orthodox working up.

TRAINEES: Young men 16–20, with not less than five G.C.E. subjects at "O" level who wish to enter the building and civil engineering industry, are offered the opportunity of training in central organisation, estimating, surveying, production or purchasing.

Please give details of education, experience, when available, and salary required, in strictest confidence. Envelopes should be addressed to **Mr. T. L. Bradford, c/o Humphreys Ltd.,** and marked 'Private and Confidential'.

ASSISTANT ESTIMATOR
for
PERMANITE LIMITED
CONTRACTS DEPT.

Applicants should have experience in Asphalt and Felt Roofing or should have received training as an estimator in building work.
Applications (in strict confidence) stating age, details of education and experience and salary required to :
Contracts Director, Permanite Limited, 455 Old Ford Rd., Bow, London, E.3.

ESTIMATOR for Precast Concrete Offices. Details of experience, age and salary required. Good prospects to right man.—Box 1661, "The Builder."

ESTIMATOR/SUPERVISOR, age about 30, Required by old-established North London firm undertaking small building contracts, conversions and maintenance. Good knowledge of all trades essential. Salary £700. Good prospects.—Particulars to Box 1718, "The Builder."

BUILDERS' ESTIMATOR-SURVEYOR Required for Contracts and smaller works. Fully experienced and to take charge from enquiry to final account. —Write stating age, experience and salary required, to WM. HARBROW Ltd., 214, Rotherhithe New-road, London, S.E.16.

ESTIMATOR EXPERIENCED ESTIMATOR Required for building contracts of £50,000-£200,000 range in Central London area.—Write, giving experience, age and salary required to The Secretary, GRIGGS & SON, Ltd., 56 Victoria-street, London, S.W.1.

ESTIMATOR Required urgently for a vacancy with a well-established Precast Concrete Company in Surrey manufacturing all types of units including prestressed beams. The applicant must have good experience in the preparation of quotations and possess administrative ability. This is an important appointment and a substantial salary will be paid.—Applicants should state age, experience, salary required and availability, and address their letters for the personal attention of the Managing Director, Box 1696, "The Builder."

ESTIMATOR, with ability to price all types of joinery, Required by Manufacturers, North-West. Excellent opportunity for person with initiative. Pension Scheme. Write full details of training and experience and state salary required.—Box 1690, "The Builder."

BUILDERS' ESTIMATOR/SURVEYOR Required. Able to take full control, and experienced in all types of work, maintenance, alterations and small contract building. Old established N.E. London Contractors with own joinery works.—Apply stating age, experience and salary required, Box 1599, "The Builder."

PAINTING CONTRACTOR Requires ESTIMATOR/SURVEYOR. Excellent opportunity bright man, N.W. London area.—Box 1742, "The Builder."

ESTIMATOR/SURVEYOR (ASSISTANT), 20 to 28 years old Required for well known West End Company. Work will involve Building and Decorative schemes also large scale industrial painting work. —Write stating age, experience, salary required and availability to Box 1743, "The Builder."

ASSISTANT ESTIMATOR for small high-class works.—Write stating age, experience and salary required to W. LOWETH & SONS Ltd., 17/19, Lansdowne Way, Stockwell, S.W.8.

ESTIMATOR/SURVEYOR Required, fully experienced and capable of competitive tendering for all types of building by quantities, also from plans, with thorough knowledge of preparation of final accounts, claims, etc.; flat available if required; pension scheme.—Full details of experience, age and salary in confidence to BRAZIER & SON, Ltd., 303/305, Portswood-road, Southampton.

ASSISTANT ESTIMATOR Required by Islington Building Contractors. Progressive post for the right man. Salary commensurate with experience and ability.—Box 935, "The Builder."

G. E. WALLIS & SONS, LIMITED

invite applications for appointments to London Office staff of **SENIOR ESTIMATORS and SURVEYORS.** Applications (in strict confidence) stating age, details of general and technical education, previous experience and salary, to **The Secretary at 231, Strand, W.C.2.**

PROSPEROUS SURREY BUILDING CONTRACTORS with recently formed Public Works Company will appoint MANAGER. Only fully qualified persons of proven record and capable of ultimate directorship and £2,000 plus should apply in confidence, with full details and present salary to Box 1662, "The Builder."

CONTRACTS MANAGER Required for medium-sized builders N.W. London area, age 45/50. Must be capable of handling contracts from enquiry to final account stage.—Write in confidence giving full particulars past experience and salary required to W. RICHARDS & SONS (HENDON), Ltd., Church-road, N.W.4.

WORKS MANAGER Required by progressive West of England shopfitters. Knowledge modern methods and control essential. Write stating age, salary required, previous experience.—Box 1663, "The Builder."

MANAGERS Required by progressive firm of Contractors for their Area Offices situated in the South. Applicants should be between the ages of 38-45, have a thorough knowledge of modern building methods and materials, able to prove ability to handle successfully several building contracts for schools, office buildings, housing, roads and sewers, ranging from £50,000 to £500,000 each in value running concurrently, be experienced in modern management techniques including planning, cost control, work study, staff relations, etc. Position is permanent and Pension Scheme is available. Commencing salary £1,500 p.a. according to experience. Those holding similar position or that of Assistant Manager apply stating age, qualifications, present appointment, details of training and names of employers since entering the industry, salary required, when available, to Box 1664, "The Builder."

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For contracts of up to about £100,000. The position offers considerable prospects of advancement and suitable applicants will be based at Head Office in Central London.

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MANAGER Required by long-established Building and Civil Engineering firm for their branch in South Wales. Applicants must be fully experienced in Office Administration, Estimating, Contracts Management, Costing, etc. Only competent persons need apply, stating experience, with references and salary required, to Box 1753, "The Builder."

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SHOPFITTING REPRESENTATIVE Required by established London company, able and competent to handle all levels of enquiries and having established personal connection.—Write Managing Director, UNIVERSAL SHOPFITTING COMPANY (LONDON), Ltd., Lower Sydenham, S.E.26.

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BUYER Required for Housing Division of WATES LTD. Knowledge of sub-contractors an advantage but not essential. Bonus, superannuation and sick benefit schemes. Excellent opportunity for advancement.—Write, giving full details of age, experience and present salary, to Personnel Manager, 1258/60, London-road, Norbury, S.W.16.

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Required for housing estate in North London area. Applicant needs to be fully experienced in Setting-out and site organisation. He must have initiative and drive, able to control sub-contractors and be used to good class development.—Write in the first instance stating age, experience and salary required Box 1710, "The Builder."

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CONTRACTS SUPERVISOR Required by Building and Civil Engineering firm for South Wales. Must be up-to-date and fully experienced in Contracts Planning, Costing and Site Management, etc.—Apply with references, stating experience and salary required to Box 1752, "The Builder."

GENERAL FOREMAN Required for Flat Scheme in Northwood area, Middlesex. Must be capable of taking full control, experienced in setting out, used to good-class finish. Previous experience in this type of development essential.—Apply in writing, PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, experience and salary required.

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YOUNG FOREMAN OF WORKS or SURVEYOR Required, must be ex-Works Services, with good knowledge of W.D. Schedule and ability to organise work. Permanent situation with good prospects. Pension Scheme in operation. Must be prepared to move about in London, Kent, Surrey.—Box 1777, "The Builder."

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CONTRACT MANAGERS, CLERKS OF WORKS, AGENTS and STAFF FOREMEN are invited to apply for membership of this Institution, which has for over a century granted pensions to members and their widows, and so assist to maintain the status and promote the interests of supervisory staff in the Industry. Architects, Builders and Civil Engineers requiring efficient staff as above are requested to contact the

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J. W. TILLER, L.I.O.B.,
111, Marlborough Hill, St. John's Wood,
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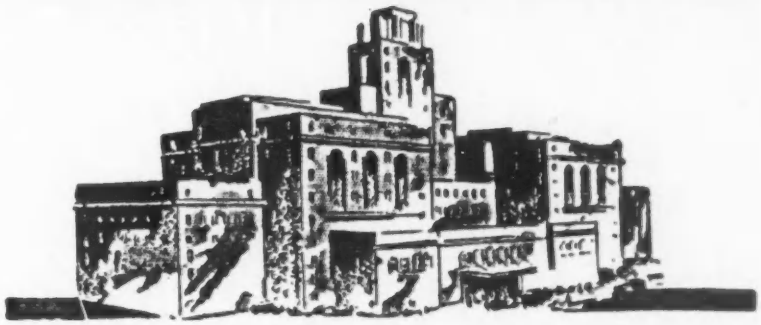

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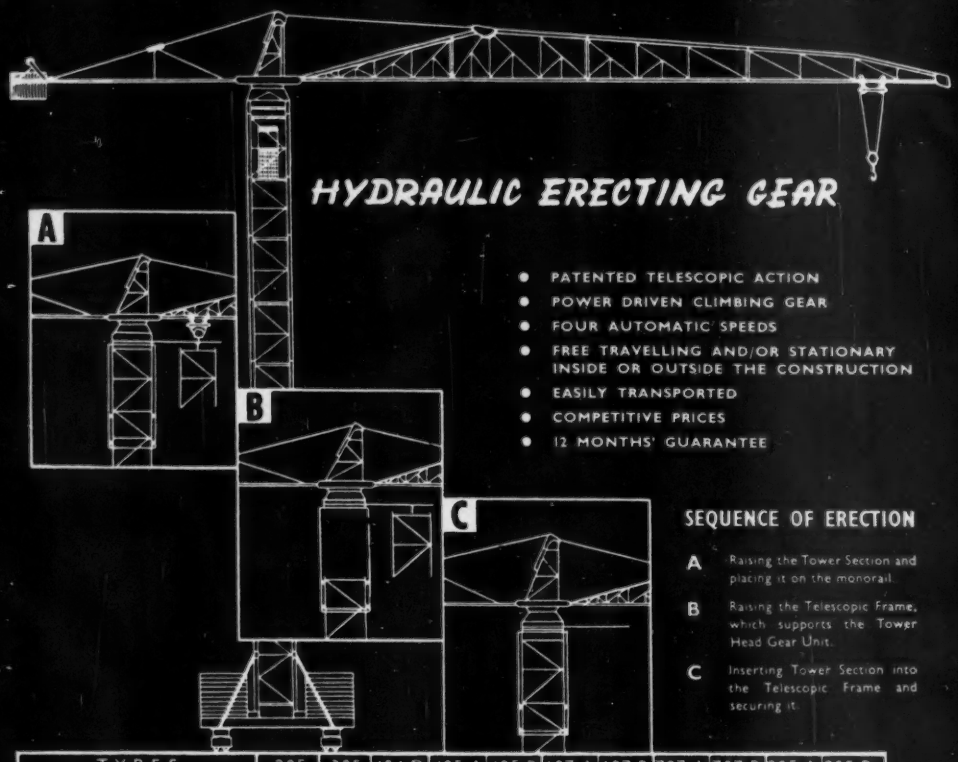
A THREE IN ONE

AN ENTIRELY NEW TOWER CRANE

COMPLYING WITH B.S.S. 2799/56

TELESCOPIC • CLIMBING • RAIL-MOUNTED



HYDRAULIC ERECTING GEAR

- PATENTED TELESCOPIC ACTION
- POWER DRIVEN CLIMBING GEAR
- FOUR AUTOMATIC SPEEDS
- FREE TRAVELLING AND/OR STATIONARY INSIDE OR OUTSIDE THE CONSTRUCTION
- EASILY TRANSPORTED
- COMPETITIVE PRICES
- 12 MONTHS' GUARANTEE

SEQUENCE OF ERECTION

A Raising the Tower Section and placing it on the monorail.

B Raising the Telescopic Frame, which supports the Tower Head Gear Unit.

C Inserting Tower Section into the Telescopic Frame and securing it.

TYPES	205	305	404.D	405.A	405.B	607.A	607.B	707.A	707.B	805.A	805.B
Capacity in metre tons	2.5 m.t.	7 m.t.	10 m.t.	14 m.t.	13 m.t.	25 m.t.	20 m.t.	40 m.t.	30 m.t.	50 m.t.	45 m.t.
Maximum Radius	34 ft.	47 ft.	57 ft.	66 ft.	72 ft.	82 ft.	92 ft.	82 ft.	100 ft.	82 ft.	100 ft.
S.W.L. at maximum radius	5 cwt.	10 cwt.	12 cwt.	14 cwt.	12 cwt.	20 cwt.	16 cwt.	30 cwt.	20 cwt.	40 cwt.	30 cwt.
Maximum S.W.L.	10 cwt.	20 cwt.	40 cwt.	50 cwt.	50 cwt.	60 cwt.	60 cwt.	100 cwt.	100 cwt.	120 cwt.	120 cwt.
Height under hook free travelling	40 ft.	69 ft.	86 ft.	98 ft.	98 ft.	135 ft.	135 ft.	148 ft.	148 ft.	135 ft.	135 ft.
Height when "Telescopic"		100 ft.	460 ft.	460 ft.	460 ft.	500 ft.	500 ft.	500 ft.	500 ft.	500 ft.	500 ft.
Height when "Climbing"			600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.		
Maximum lifting speed	100 f.m.	100 f.m.	230 f.m.	245 f.m.	245 f.m.	200 f.m.	200 f.m.	245 f.m.	245 f.m.	200 f.m.	200 f.m.

Concessionaire in U.K.:

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RECORD TOWER CRANES

THE CRANES 10 YEARS AHEAD . . . F. POTAIN & CO. (FRANCE)

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